

MWCP SERIES

PACKAGED AIR CONDITIONER

R407C

R407H

※optional



R407C/R407H Series [Scroll Type]

Model				MWCP10C	MWCP18C	MWCP30C
Power	Main circuit (Control circuit)			380V/3~/50Hz, 440V/3~/60Hz (220V~/50Hz, 220V~/60Hz)		
Painting color				New light blue (7.5BG7/2) and Black		
Dimensions		H x W x D	mm	1725 x 800 x 600	1725 x 1050 x 600	1725 x 1250 x 600
★1	Cooling capacity	(50/60Hz)	kW	8.0/9.5	13.5/15.8	20.6/23.5
★2	Cooling water flow rate (Fresh water)	(50/60Hz)	L/min	31.7/38.3	53.3/63.3	80.0/95.0
Head loss (Cooling water)		(50/60Hz)	kPa	2.0/3.0	11.0/15.0	4.0/6.0
Compressor	Model			ZR36K3E-TFD-522 x1	ZR57KCE-TFD-522 x1	ZR94KCE-TFD-522 x1
	Type			Scroll type		
	Speed	(50/60Hz)	r/min	2900/3450		
	Motor power	(50/60Hz)	kW	2.24 x 1	3.58 x 1	5.97 x 1
	Rated current	(50/60Hz)	A	4.8 x 1/4.9 x 1	7.9 x 1/8.0 x 1	12.9 x 1/12.8 x 1
	Starting manner			Direct start		
Water cooling condenser	Model			M02214717004	M02214717005	M02214717006
	Type			Water cooled shell & tube		
	Material	Tube		Copper tubes TP2(GB/T 1527)		
		Shell		20(GB 8163)		
		Tube plate		Q235B (GB 3274)		
No.			1	1	1	
Evaporator	Model			3ROWx14FFPx20THx578mm	3ROWx14FFPx20THx828mm	3ROWx14FFPx20THx1028mm
	Type			Crossfincoil type		
	Material	Tube		Copper tubes		
		Fin		Aluminium fins		
Fan	Model			SYD160L	SYD200L	SYD200L
	Type			Centrifugal fan		
	Air flow rate	(50/60Hz)	m ³ /min	22/27	40/49	50/60
	External static press	(50/60Hz)	Pa	45/60	80/120	170/240
	Motor power		kW	0.55	1.1	1.5
	Drive			Belt drive		
Air filter				Nylon mesh		
Refrigerant control				Thermostatic expansion valve		
Temperature control				Control module,MWP010,SLM2.3		
Capacity step			%	100-0	100-0	100-0
Protective devices				Circuit breaker(for comp.& fan motor), Overload protector(for comp.& fan motor), Fusible plug, Reverse phase protector, High pressure switch, Low pressure switch, Comp. protection thermostat, Freeze-up protection thermostat, The comp. frequent starts and stops protection, Temperature sensor fault protection.		
Thermal & sound isorator				Class 1 flex (NBR/PVC)		
Piping connection	Chilled water inlet/outlet			1B(DN25)	1-1/2B(DN40)	1-1/2B(DN40)
	Upper drain outlet			3/4B(DN20)	3/4B(DN20)	3/4B(DN20)
	Lower drain outlet			3/4B(DN20)	3/4B(DN20)	3/4B(DN20)
★3 Refrigerant	Kind			R407C/R407H		
	Charged		kg	2.4 x 1	3.6 x 1	4.8 x 1
Lubricant oil	Kind			POE (Copeland Ultra22cc)		
	Charged		L	1.242 x 1	1.952 x 1	2.513 x 1
★3	Machine mass		kg	245	290	360
★3	Operating mass		kg	248	295	368

- ★1 Cooling capacity is based on the following conditions : Evaporator : Inlet air temp : 27°C d.b.,19.5°C w.b. Cooling capacity does not include fan motor heat.
 ★2 Condenser : Inlet water temp. 38°C.
 ★3 The mass of refrigerant,machine and operating may be changed.

MWCPX SERIES

PACKAGED AIR CONDITIONER for Galley



R407C

R407H

※optional

R407C/R407H Series [Scroll Type]

Model				MWCPX10C	MWCPX18C	MWCPX30C
Power	Main circuit (Control circuit)			380V/3~/50Hz, 440V/3~/60Hz (220V~/50Hz, 220V~/60Hz)		
Painting color				New light blue (7.5BG7/2) and Black		
Dimensions		H x W x D	mm	1725 x 800 x 600	1725 x 1050 x 600	1725 x 1250 x 600
★1	Cooling capacity	(50/60Hz)	kW	9.9/11.5	16.0/18.9	24.6/28.5
★2	Cooling water flow rate (Fresh water)	(50/60Hz)	L/min	38.3/44.8	60.0/72.3	90.0/108.3
Head loss (Cooling water)		(50/60Hz)	kPa	7.0/10.0	13.0/18.0	4.0/6.0
Compressor	Model			ZR36K3E-TFD-522 x1	ZR57KCE-TFD-522 x1	ZR94KTE-TFD-522 x1
	Type			Scroll type		
	Speed	(50/60Hz)	r/min	2900/3450		
	Motor power	(50/60Hz)	kW	2.24 x 1	3.58 x 1	5.97 x 1
	Rated current	(50/60Hz)	A	4.8 x 1/4.9 x 1	7.9 x 1/8.0 x 1	12.9 x 1/12.8 x 1
	Starting manner			Direct start		
Water cooling condenser	Model			M02214717004	M02214717005	M02214717006
	Type			Water cooled shell & tube		
	Material	Tube		Copper tubes TP2(GB/T 1527)		
		Shell		20(GB 8163)		
		Tube plate		Q235B (GB 3274)		
No.			1	1	1	
Evaporator	Model			3ROWx14FFPx20THx578mm	3ROWx14FFPx20THx828mm	3ROWx14FFPx20THx1028mm
	Type			Crossfincoil type		
	Material	Tube		Copper tubes		
		Fin		Aluminium fins		
Fan	Model			SYQ200L	SYQ200L	SYQ200L
	Type			Centrifugal fan		
	Air flow rate	(50/60Hz)	m ³ /min	10/12	16.7/20	25/30
	External static press	(50/60Hz)	Pa	265/380	325/465	340/495
	Motor power		kW	0.55	0.75	1.1
	Drive			Belt drive		
Air filter				Nylon mesh		
Refrigerant control				Thermostatic expansion valve		
Temperature control				Control module,MWP010,SLM2.3		
Capacity step		%	100-0	100-0	100-0	
Protective devices				Circuit breaker(for comp.& fan motor), Overload protector(for comp.& fan motor), Fusible plug, Reverse phase protector, High pressure switch, Low pressure switch, Comp. protection thermostat, Freeze-up protection thermostat, The comp. frequent starts and stops protection, Temperature sensor fault protection.		
Thermal & sound isorator				Class 1 flex (NBR/PVC)		
Piping connection	Chilled water inlet/outlet			1B(DN25)	1-1/2B(DN40)	1-1/2B(DN40)
	Upper drain outlet			3/4B(DN20)	3/4B(DN20)	3/4B(DN20)
	Lower drain outlet			3/4B(DN20)	3/4B(DN20)	3/4B(DN20)
★3 Refrigerant	Kind			R407C/R407H		
	Charged		kg	1.9 x 1	3.6 x 1	6.7 x 1
Lubricant oil	Kind			POE (Copeland Ultra22cc)		
	Charged		L	1.242 x 1	1.952 x 1	2.513 x 1
★3	Machine mass		kg	250	300	360
★3	Operating mass		kg	253	305	368

★1 Cooling capacity is based on the following conditions : Evaporator : Inlet air temp : 27°C d.b.,19.5°C w.b. Cooling capacity does not include fan motor heat.

★2 Condenser : Inlet water temp. 38°C.

★3 The mass of refrigerant,machine and operating may be changed.