



Unitary Type Mini Air Cooled Chiller Specifications

Model			APLD-F05/N1	APLD-F07/N1	APLD-F10/N1		
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50		
Cooling	Capacity	W	5000	7200	10500		
	Input	W	1938	2755	3614		
Heating	Capacity	W	5500	7700	12000		
	Input	W	1987	2834	4004		
Max. input consumption		W	2350	3200	5500		
Max. input current		A	11.7	16.7	25.7		
Starting current		A	36.8	55	110		
Refrigerant	Type		R410A	R410A	R410A		
	Weight	kg	1.6	2.1	3		
Throttle type			Capillary	Capillary	Capillary		
Compressor	Type		Rotary	Rotary	Fixed scroll		
	Brand		American Pro-Toshiba	American Pro-Toshiba	Copeland		
	Number of compressor		1	1	1		
	Thermal protector		Inner	Inner	Inner		
	Refrigerant oil	ml	750	1100	1656		
Outdoor fan motor	Type		AC motor	AC motor	AC motor		
	Brand		Welling	Welling	Welling		
	Quantity	Pieces	1	1	2		
	Input (Hi/Lo)	W	220	220	185/120		
	Speed (Hi/Lo)	r/min	660	660	860/610		
Max. air flow	m ³ /h	5563	5624	6500			
Outdoor coil	Number of rows		1	1	3		
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium		
	Tube outside diameter. and type	mm	Φ7.94	Φ7.94	Φ9.53		
Inner grooved copper tube			Inner grooved copper tube	Inner grooved copper tube			
Hydraulic module	Water pump	Input (H/M/L)	W	93/67/46	93/67/46	210/175/120	
		Pump head	m	5.5	5.5	8.5	
	Expansion tank	Volume		L	2	2	3
		Type		Plate	Plate	Plate	
	Heat exchanger	Rated water flow	m ³ /h	0.86	1.24	1.74	
		Water pressure drop	kPa	21	35	44	
Pressure difference switch			Standard	Standard	Standard		
The max. and min. water inlet pressure		kPa	500/150	500/150	500/150		
Outdoor noise level (sound pressure)		dB(A)	55	56	60/50		
Outdoor unit	Net size(D×H×W)		mm	990×966×354	990×966×354	940×1245×360	
	Packing size(D×H×W)		mm	1120×1100×435	1120×1100×435	1058×1380×438	
	Net/ Gross weight		kg	83/89	94/100	138/145	
Pipe diameter	Water inlet/outlet		mm	R1	R1	R5/4	
Control			Electronic controller	Electronic controller	Electronic controller		
Ambient temp.		°C	Cooling: 10°C~43°C; Heating: -15~24°C				
Water inlet setting temp. range (default)		°C	Cooling: 10°C~20°C; Heating mode: 30°C~55°C				

Note: Specifications are based on the following conditions:

1. Cooling: chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
2. Heating: warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB .
3. 1m away in open field(sound pressure).

Model			APLD-F10/R3N1	APLD-F12/R3N1	APLD-F14/R3N1	APLD-F16/R3N1	
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
Cooling	Capacity	W	10500	12000	14000	16	
	Input	W	3930	4410	4859	6430	
Heating	Capacity	W	12000	14000	16120	18	
	Input	W	4240	4643	5218	6444	
Max. input consumption		W	4400	5000	6550	7700	
Max. input current		A	8.3	9.1	10.5	14.3	
Starting current		A	45	66	60	92	
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Weight	kg	2.7	3	3.6	4.2	
Throttle			Capillary	Capillary	Capillary	Capillary	
Compressor	Type		Fixed scroll	Fixed scroll	Fixed scroll	Fixed scroll	
	Brand		Copeland	Sanyo	Sanyo	Sanyo	
	Number of compressor		1	1	1	1	
	Thermal protector		Inner	Inner	Inner	Inner	
	Refrigerant oil	ml	1952	1700	1600	1700	
Outdoor fan motor	Type		AC motor	AC motor	AC motor	AC motor	
	Brand		Welling	Welling	Welling	Welling	
	Quantity	Pieces	2	2	2	2	
	Input (Hi/Lo)	W	185/120	185/120	185/120	185/120	
	Speed (Hi/Lo)	r/min	860/610	860/610	860/610	860/610	
	Max. air flow	m ³ /h	6465	6470	6500	6550	
Outdoor coil	Number of rows		2	2	3	3	
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	
	Tube outside diameter. and type	mm	Φ7.94	Φ7.94	Φ9.53	Φ7.94	
			Inner grooved copper tube	Inner grooved copper tube	Inner grooved copper tube	Inner grooved copper tube	
Hydraulic module	Water pump	Input (H/M/L)	W	210/175/120	210/175/120	210/175/120	
		Pump head	m	8.5	8.5	8.5	8.5
	Expansion tank	Volume	L	3	3	3	3
	Heat exchanger	Type		Plate	Plate	Plate	Plate
		Rated water flow	m ³ /h	1.72	2	2.4	2.8
		Water pressure drop	kPa	44	40	34	38
	Pressure difference switch			Standard	Standard	Standard	Standard
The max. and min. water inlet pressure		kPa	500/150	500/150	500/150	500/150	
Outdoor noise level (sound pressure)		dB(A)	58/48	59/49	60/50	60/51	
Outdoor unit	Net size(D×H×W)	mm	940×1245×360	1070×1249×420	1070×1249×420	1070×1249×420	
	Packing size(D×H×W)	mm	1058×1380×438	1188×1385×498	1188×1385×498	1188×1385×498	
	Net/ Gross weight	kg	131/139	137/145	145/160	142/150	
Pipe diameter	Water inlet/outlet	mm	R5/4	R5/4	R5/4	R5/4	
Control			Electronic controller	Electronic controller	Electronic controller	Electronic controller	
Ambient temp.		°C	Cooling: 10°C~43°C; Heating: -15~24°C				
Water inlet setting temp. range (default)		°C	Cooling: 10°C~20°C; Heating mode: 30°C~55°C				

Note: Specifications are based on the following conditions:

1. Cooling: chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
2. Heating: warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB .
3. 1m away in open field(sound pressure).