



Model		APLB-F25A/R3N1	APLB-D25A/R3N1	APLB-F30A/R3N1	APLB-D30A/R3N1	
Cooling Capacity	kW	28	28	30	30	
Heating Capacity	kW	29.5	29.5	32	32	
Power input	Cooling	kW	9.3	9.3	10.0	
	Cooling rated current	A	14.6	14.6	16.3	
	Heating	kW	9.2	9.2	9.8	
	Heating rated current	A	14.3	14.3	16.0	
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
Power supply	Manual switch	A	50	50	50	
	Fuse	A	36	36	36	
Max. Input consumption	kW	12.6	12.5	12.6	12.5	
Max. Current	A	21.8	21.5	21.8	21.5	
Compressor	Type		Fixed scroll	Fixed scroll+digital scroll	Fixed scroll	Fixed scroll+digital scroll
	Brand		Copeland	Copeland	Copeland	Copeland
	Model		ZP67KCE-TFD-522	ZPD67KCE-TFD-532/ ZP67KCE-TFD-522	ZP67KCE-TFD-522	ZPD67KCE-TFD-532/ ZP67KCE-TFD-522
	Quantity	Pieces	2	1+1	2	1+1
	Input	W	5200	5260/5200	5200	5260/5200
	Rate current	A	11.8	10.6/11.8	11.8	10.6/11.8
	Locked rotor Amp	A	74	74/74	74	74/74
	Refrigerant oil	ml	1656	1892/1656	1892	1892/1656
Refrigerant	Type		R410A	R410A	R410A	R410A
	Refrigerant control		EXV	EXV	EXV	EXV
	Weight	kg	3.5×2	3.5×2	3.5×2	3.5×2
Condenser (Air side)	Type		Fin-coil	Fin-coil	Fin-coil	Fin-coil
	Quantity of fan motor	Pieces	1	1	1	1
	Air flow	m <sup>3</sup> /h	12000	12000	12000	12000
	Fan motor model		YDK400-8-YA	YDK400-8-YA	YDK400-8-YA	YDK400-8-YA
	Fan motor rated current	A	3.1	3.1	3.1	3.1
	Fan motor input	kW	0.4	0.4	0.4	0.4
Evaporator (Water side)	Type		Double-pipe	Double-pipe	Double-pipe	Double-pipe
	Water pressure drop	kPa	60	60	60	60
	Water inlet/outlet pipeline inside diameter	mm	DN40	DN40	DN40	DN40
	Water flow	m <sup>3</sup> /h	4.4	4.4	5.2	5.2
	Max. Pressure	MPa	1	1	1	1
Water pipe connection type		Flexible joint	Flexible joint	Flexible joint	Flexible joint	
Dimension	Net(D×H×W)	mm	1514×1865×841	1514×1865×841	1514×1865×841	1514×1865×841
	Packing(D×H×W)	mm	1590×2065×995	1590×2065×995	1590×2065×995	1590×2065×995
Weight	Net weight	kg	380	380	380	380
	Operation weight	kg	420	420	420	420
Connection	Power wire	mm <sup>2</sup>	10×4+10×1	10×4+10×1	10×4+10×1	10×4+10×1
	Signal wire	mm <sup>2</sup>	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding
Control type		Wired controller				
Safety protection device		1) Protection for over-high discharge pressure. 2) Protection for over-low suction pressure. 3) Power supply phase sequence protection. 4) Anti-freezing protection in cooling mode. 5) Anti-freezing protection in Winter. 6) Protection for compressor over current. 7) Protection for compressor overload. 8) Outlet and inlet water temperature difference protection. 9) Compressor discharge temperature protection. 10) Water flow cut-off protection. 11) Sensor malfunction protection. 12) Low-temperature protection of shell and tube heat exchanger.				
Noise level	dB(A)	65				
Operation water temp	°C	Cooling: 5~17 Heating: 45~50				
Ambient temp	°C	Cooling: 10~46 Heating: -10~21				

Note: Specifications are based on the following conditions:

- Cooling : chilled water inlet/outlet: 12°C / 7°C, and outdoor ambient temp. of 35°C DB.
- Heating : warm water inlet/outlet: 40°C / 45°C, and outdoor ambient temp. 7°CDB/6°CWB.
- Water side fouling factor: 0.086m<sup>2</sup>·°C/kW.
- 1m away in open field(sound pressure).

Model			APLPHL-F30A/R3N1	APLPHL-D30A/R3N1	APLB-F55A/R3N1	APLB-F60A/R3N1
Cooling Capacity		kW	30	30	55	60
Heating Capacity		kW	32	32	59	64
Power input	Cooling	kW	10+1.2(Pump)	10+1.2(Pump)	17.5	19.3
	Cooling rated current	A	18.3	18.3	30.5	33.6
	Heating	kW	9.8+1.2(Pump)	9.8+1.2(Pump)	18.3	19.8
	Heating rated current	A	17.8	17.8	31.5	34.3
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-400/3/50	380-400/3/50
Power supply	Manual switch	A	50	50	125	125
	Fuse	A	36	36	100	100
Max. Input consumption		kW	13.4	13.4	28.2	28.2
Max. Current		A	22.5	22.5	47.6	47.6
Compressor	Type		Fixed scroll	Fixed scroll +digital scroll	Fixed scroll	Fixed scroll
	Brand		Copeland	Copeland	Danfoss	Danfoss
	Model		ZP67KCE-TFD-522	ZPD67KCE-TFD-532/ ZP67KCE-TFD-522	SH140A4ALC	SH140A4ALC
	Quantity	Pieces	2	1+1	2	2
	Input	W	5200	5260/5200	11246	11246
	Rate current	A	11.8	10.6/11.8	20.88	20.88
	Locked rotor Amp	A	74	74	177	177
	Refrigerant oil	ml	1892	1892/1656	3300	3300
Refrigerant	Type		R410A	R410A	R410A	R410A
	Refrigerant control		EXV	EXV	EXV+capillary	EXV+capillary
	Weight	kg	3.5×2	3.5×2	7.0×2	7.0×2
Condenser (Air side)	Type		Fin-coil	Fin-coil	Fin-coil	Fin-coil
	Quantity of fan motor	Pieces	1	1	2	2
	Air flow	m <sup>3</sup> /h	12000	12000	24000	24000
	Fan motor model		YDK550-6E	YDK550-6E	YDK550-6D	YDK550-6D
	Fan motor rated current	A	4.5	4.5	4.5×2	4.5×2
	Fan motor input	kW	0.55	0.55	0.55×2	0.55×2
Evaporator (Water side)	Type		Double-pipe	Double-pipe	Shell-tube	Shell-tube
	Water pressure drop	kPa	60	60	15	15
	Water inlet/outlet pipeline inside diameter	mm	DN40	DN40	DN100	DN100
	Water flow	m <sup>3</sup> /h	5.2	5.2	9.4	10.3
	Max. Pressure	MPa	1	1	1	1
	Water pipe connection type		Flexible joint	Flexible joint	Flexible joint	Flexible joint
Dimension	Net(D×H×W)	mm	1514×1865×841	1514×1865×841	2000×1880×900	2000×1880×900
	Packing(D×H×W)	mm	1590×2065×995	1590×2065×995	2090×2055×985	2090×2055×985
Weight	Net weight	kg	430	430	580	580
	Operation weight	kg	450	450	650	650
Connection	Power wire	mm <sup>2</sup>	10×4+6×1	10×4+6×1	16×4+10×1	16×4+10×1
	Signal wire	mm <sup>2</sup>	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding
Control type			Wired controller			
Safety protection device			1) Protection for over-high discharge pressure. 2) Protection for over-low suction pressure. 3) Power supply phase sequence protection. 4) Anti-freezing protection in cooling mode. 5) Anti-freezing protection in Winter. 6) Protection for compressor over current. 7) Protection for compressor overload. 8) Outlet and inlet water temperature difference protection. 9) Compressor discharge temperature protection. 10) Water flow cut-off protection. 11) Sensor malfunction protection. 12) Low-temperature protection of shell and tube heat exchanger.			
Noise level		dB(A)	67			
Operation water temp		°C	Cooling: 0~17 (Less than 5°C must add antifreeze.) Heating: 22~50		Cooling: 5~17 Heating: 45~50	
Ambient temp		°C	Cooling: -10~46 Heating: -10~21		Cooling: 10~46 Heating: -10~21	

Note: Specifications are based on the following conditions:

- Cooling : chilled water inlet/outlet: 12°C / 7°C, and outdoor ambient temp. of 35°C DB.
- Heating : warm water inlet/outlet: 40°C / 45°C, and outdoor ambient temp. 7°CDB/6°CWB.
- Water side fouling factor: 0.086m<sup>2</sup>·°C/kW.
- 1m away in open field(sound pressure).

Model		APLB-F65A/R3N1	APLB-D65A/R3N1	APLBL-F65A/R3N1	APLBL-D65A/R3N1	
Cooling Capacity		kW	65	65	65	
Heating Capacity		kW	69	69	69	
Power input	Cooling	kW	20.4	20.4	20.4	
	Cooling rated current	A	36.5	36.5	36.5	
	Heating	kW	21.5	21.5	21.5	
	Heating rated current	A	37.2	37.2	37.2	
Power supply		V/Ph/Hz	380-400/3/50	380-415/3/50	380-400/3/50	
Power supply	Manual switch	A	125	100	150	
	Fuse	A	100	70	100	
Max. Input consumption		kW	28.2	27.5	27.9	
Max. Current		A	47.6	46	50	
Compressor	Type		Fixed scroll	Fixed scroll +digital scroll	Fixed scroll	Fixed scroll +digital scroll
	Brand		Danfoss	Copeland	Danfoss	Copeland
	Model		SH140A4ALC	ZP144KCE-TFD-522 / ZPD72KCE-TFD-433 / ZP67KCE-TFD-420	SH140A4ALC	ZP144KCE-TFD-522 / ZPD72KCE-TFD-433 / ZP67KCE-TFD-420
	Quantity	Pieces	2	3	2	3
	Input	W	11246	10800/5750/5200	11,246	10800/5750/5200
	Rate current	A	20.88	18.7/9.8/9.1	20.88	18.7/9.8/9.1
	Locked rotor Amp	A	177	144/82.4/74	177	144/82.4/74
	Refrigerant oil	ml	3300	3200/1893/1685	3300	3200/1893/1685
Refrigerant	Type		R410A	R410A	R410A	R410A
	Refrigerant control		EXV+ capillary	EXV+ capillary	EXV+ capillary	EXV+ capillary
	Weight	kg	7.0×2	7.0×2	7.0×2	7.0×2
Condenser (Air side)	Type		Fin-coil	Fin-coil	Fin-coil	Fin-coil
	Quantity of fan motor	Pieces	2	2	2	2
	Air flow	m <sup>3</sup> /h	24000	24000	24000	24000
	Fan motor model		YDK550-6D	YDK550-6E	YDK550-6E	YDK550-6E
	Fan motor rated current	A	4.5×2	4.5×2	4.0×2	4.0×2
	Fan motor input	kW	0.55×2	0.55×2	0.865×2	0.865×2
Evaporator (Water side)	Type		Shell-tube	Shell-tube	Shell-tube	Shell-tube
	Water pressure drop	kPa	15	15	15	15
	Water inlet/outlet pipeline inside diameter	mm	DN100	DN100	DN100	DN100
	Water flow	m <sup>3</sup> /h	11.2	11.2	11.2	11.2
	Max. Pressure	MPa	1	1	1	1
Water pipe connection type		Flexible joint	Flexible joint	Flexible joint	Flexible joint	
Dimension	Net(D×H×W)	mm	2000×1880×900	2000×1880×900	2000×1880×900	2000×1880×900
	Packing(D×H×W)	mm	2090×2055×985	2090×2055×985	2106×2090×998	2106×2090×998
Weight	Net weight	kg	580	600	580	610
	Operation weight	kg	650	670	650	680
Connection	Power wire	mm <sup>2</sup>	16×4+10×1	25×4+16×1	25×4+16×1	25×4+16×1
	Signal wire	mm <sup>2</sup>	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding
Control type		Wired controller				
Safety protection device		1) Protection for over-high discharge pressure. 2) Protection for over-low suction pressure. 3) Power supply phase sequence protection. 4) Anti-freezing protection in cooling mode. 5) Anti-freezing protection in Winter. 6) Protection for compressor over current. 7) Protection for compressor overload. 8) Outlet and inlet water temperature difference protection. 9) Compressor discharge temperature protection. 10) Water flow cut-off protection. 11) Sensor malfunction protection. 12) Low-temperature protection of shell and tube heat exchanger.				
Noise level		dB(A)	67	67	67	
Operation water temp		°C	Cooling: 5~17 Heating: 45~50	Cooling: 0~17 (Less than 5°C must add antifreeze.) Heating: 22~50		
Ambient temp		°C	Cooling: 10~46 Heating: -10~21	Cooling:-10~46 Heating:-10~21		

Note: Specifications are based on the following conditions:

- Cooling : chilled water inlet/outlet: 12°C / 7°C, and outdoor ambient temp. of 35°C DB.
- Heating : warm water inlet/outlet: 40°C / 45°C, and outdoor ambient temp. 7°CDB/6°CWB.
- Water side fouling factor: 0.086m<sup>2</sup>·°C/kW.
- 1m away in open field(sound pressure).

Model			APLB-F130A/R3N1	APLBL-F130A/R3N1	APLB-F200A/R3N1	APLBT-F250A/R3N1	
Cooling Capacity		kW	130	130	185	250	
Heating Capacity		kW	138	138	200	270	
Power input	Cooling	kW	40.8	40.8	63	78.3	
	Cooling rated current	A	73	73	110	141.9	
	Heating	kW	43	43	61	80	
	Heating rated current	A	74.4	74.4	107	146	
Power supply		V/Ph/Hz	380-400/3/50	380-400/3/50	380-400/3/50	380-400/3/50	
Power supply	Manual switch	A	250	250	400	450	
	Fuse	A	200	200	350	350	
Max. Input consumption		kW	55.5	55.5	78.3	104.9	
Max. Current		A	93.8	93.8	133.4	194.6	
Compressor	Type		Fixed scroll	Fixed scroll	Fixed scroll	Fixed scroll	
	Brand		Danfoss	Danfoss	Danfoss	Danfoss	
	Model		SH140A4ALC	SH140A4ALC	SH140A4ALC	SH120A4ALC	
	Quantity	Pieces	4	4	6	8	
	Input	W	11246	11246	11246	10275	
	Rate current	A	20.88	20.88	20.88	20.88	
	Locked rotor Amp	A	177	177	177	177	
	Refrigerant oil	ml	3300	3300	3300	3300	
Refrigerant	Type		R410A	R410A	R410A	R410A	
	Refrigerant control		EXV+capillary	EXV+capillary	EXV+capillary	EXV+capillary	
	Weight	kg	7.0×4	7.0×4	7.0×6	15×4	
Condenser (Air side)	Type		Fin-coil	Fin-coil	Fin-coil	Fin-coil	
	Quantity of fan motor	Pieces	4	4	6	8	
	Air flow	m <sup>3</sup> /h	48000	48000	72000	96000	
	Fan motor model		YDK550-6D	YDK550-6E	YDK550-6D	YS700-6F-1/YS700-6F-2	
	Fan motor rated current	A	4.5×4	4.5×4	4.5×6	1.8×8	
	Fan motor input	kW	0.55×4	0.55×4	0.55×6	0.7×8	
Evaporator (Water side)	Type		Shell-tube	Shell-tube	Shell-tube	Shell-tube	
	Water pressure drop	kPa	25	25	30	40	
	Water inlet/outlet pipeline inside diameter		mm	DN65	DN65	DN80	DN100
	Water flow	m <sup>3</sup> /h	22.4	22.4	31.8	43	
	Max. Pressure	MPa	1	1	1	1	
	Water pipe connection type		Flexible joint	Flexible joint	Flexible joint	Flexible joint	
Dimension	Net(D×H×W)	mm	2000×2090×1685	2000×2090×1685	2850×2110×2000	3800×2130×2000	
	Packing size(D×H×W)	mm	2090×2240×1755	2090×2240×1755	2980×2260×2135	3900×2200×2100	
Weight	Net weight	kg	1150	1150	1730	2450	
	Operation weight	kg	1270	1270	2000	2600	
Connection	Power wire	mm <sup>2</sup>	35×3+16×2	35×3+16×2	75×3+35×2	185×4+70×1	
	Signal wire	mm <sup>2</sup>	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding	0.75×3-core with shielding	
Control type			Wired controller				
Safety protection device			1) Protection for over-high discharge pressure. 2) Protection for over-low suction pressure. 3) Power supply phase sequence protection. 4) Anti-freezing protection in cooling mode. 5) Anti-freezing protection in Winter. 6) Protection for compressor over current. 7) Protection for compressor overload. 8) Outlet and inlet water temperature difference protection. 9) Compressor discharge temperature protection. 10) Water flow cut-off protection. 11) Sensor malfunction protection. 12) Low-temperature protection of shell and tube heat exchanger.				
Noise level		dB(A)	70	70	74	74	
Operation water temp		°C	Cooling: 5~17 Heating: 45~50	Cooling: 0~17 (Less than 5°C must add antifreeze.) Heating: 22~50	Cooling: 5~17 Heating: 45~50	Cooling: 0~17 (Less than 5°C must add antifreeze.) Heating: 22~50	
Ambient temp		°C	Cooling: 10~46 Heating: -10~21	Cooling: -10~46 Heating: -10~21	Cooling: 10~46 Heating: -10~21	Cooling: 10~52 Heating: -10~21	

Note: Specifications are based on the following conditions:

- Cooling : chilled water inlet/outlet: 12°C / 7°C, and outdoor ambient temp. of 35°C DB.
- Heating : warm water inlet/outlet: 40°C / 45°C, and outdoor ambient temp. 7°CDB/6°CWB.
- Water side fouling factor: 0.086m<sup>2</sup>·°C/kW.
- 1m away in open field(sound pressure).