-86℃ Freezer



BDF-86V28



BDF-86V58



BDF-86V65



BDF-86V108

Technical Parameters

Model	BDF-86V28	BDF-86V58	BDF-86V65	BDF-86V108
Capacity	28L	58L	65L	108L
Temp. Range Temp. Accuracy	-40~-86℃ 0.1℃			
Temp. Uniformity	±3℃	±4℃		±3℃
Temp. Stability	≤6℃			
Recovery Time (Recover to -75℃ in an ambient temp. of 25℃)	20min	25min	≤15min	20min
Cooling Time (Cool down to -80℃ in an ambient temp. of 25℃)	120min	160min	≤240min	120min
Control System Display	Microprocessor control LED			

Technical Parameters

Model		BDF-86V28	BDF-86V58	BDF-86V65	BDF-86V108
Alarm		High/low temperature alarm, controller failure alarm	High/low temperature alarm, power failure alarm(48h), controller failure alarm, door ajar alarm, ambient temperature alarm, condenser fault alarm, filter clogging alarm, voltage abnormality alarm	High/low temperature alarm, power failure alarm(72h), controller failure alarm, door ajar alarm	High/low temperature alarm, controller failure alarm
Refrigeration Type		Direct-cooling			
Refrigerant		R290/R170, 100g	R4001, 200g	R600a/R1150/R14, 150g	R290/R170, 115g
Compressor		International famous brand compressor /1			
Condenser & Evaporator		Copper tube finned type; built-in coil type	Copper tube evaporator; finned condenser	Micro channel condenser; built-in coil type	Copper tube finned type; built-in coil type
Defrost		Manual defrost			
Construction		Polyurethane cyclopentane foam			
Material	Internal Material	304 stainless steel			
	External Material	Sprayed steel plate			
Door		Outer door: cyclopentane monomer foam outer door*1 Interior door: stainless steel door*1	Outer door: sprayed steel plate door*1 Interior door: stainless steel door*2	Outer door: cyclopentane monomer foam outer door*1 Interior door: cyclopentane monolithic foaming, stainless steel door*1	Outer door: cyclopentane monomer foam outer door*1 Interior door: stainless steel door*2
Noise		55~60dB(A)	58dB(A)	53dB(A)	55~60dB(A)
Consumption		400W	442W	540W Apparent power: 550VA	480W
Power Supply		AC 220V, 50Hz(Standard); 220V, 60Hz; 110V, 50/60Hz(Optional)		AC 220V, 50Hz (Standard); 110/220V, 60Hz(Optional)	AC 220V, 50Hz (Standard); 220V, 60Hz; 110V, 50/60Hz(Optional)
Casters		Yes			
Shelf		1			
Standard Accessory		Test hole	Remote alarm function interface, test hole, USB interface	Test hole	
Optional Accessory		Temperature recorder	Temperature recorder, RS485, liquid nitrogen backup system	USB interface, RS485, temperature recorder, liquid nitrogen backup system	Temperature recorder
Internal Size (W*D*H)		270*265*400mm	330*453*410mm	360*455*395mm	460*460*510mm
External Size (W*D*H)		505*520*1165mm	635*757*1212mm	660*715*1165mm	700*730*1260mm
Package Size (W*D*H)		535*575*1290mm	730*860*1420mm	765*825*1350mm	765*815*1395mm
Net Weight		71kg	112kg	92kg	107kg
Gross Weight		90kg	146kg	134kg	133kg

-86℃ Freezer(Undercounter Type)



Technical Parameters

Model		BDF-86V100
Capacity		90L
Temp. Range		-40~-86℃
Temp. Accuracy		0.1℃
Temp. Uniformity		≤5℃
Temp. Stability		≤6℃
Control System		Microprocessor control
Display		LCD touch screen
Alarm		High/low temperature alarm, power failure alarm(48h), controller failure alarm, ambient temperature alarm, condenser overheat alarm
Refrigeration Type		Direct-cooling
Refrigerant		Hydrocarbon mixture refrigerant
Compressor		International famous brand compressor /1
Condenser & Evaporator		Copper tube aluminum fin type condenser; copper coil type evaporator
Defrost		Manual defrost
Construction		Polyurethane foam layer + vacuum insulation board
Material	Internal Material	Galvanized steel powder spraying
	External Material	Galvanized steel powder spraying
Door		Outer door*1, inner door*2
Noise		55dB(A)
Consumption		460W
Power Supply		AC 220V, 50Hz(Standard); 220V, 60Hz, 110V, 60Hz(Optional)
Casters		No
Shelf		1
Standard Accessory		Test hole, shelf, USB
Optional Accessory		Temperature recorder, freezer rack and freezer box, liquid nitrogen backup system
Internal Size (W*D*H)		320*450*610mm
External Size (W*D*H)		795*680*815mm
Package Size (W*D*H)		850*740*953mm
Net Weight		92kg
Gross Weight		107kg

-86℃ Freezer



BDF-86V168



BDF-86V348

Technical Parameters

Model		BDF-86V168	BDF-86V348
Capacity		168L	348L
Temp. Range		-40~-86℃	
Temp. Accuracy		0.1℃	
Temp. Uniformity		±4℃	
Temp. Stability		≤6℃	
Recovery Time (Recover to -75℃ in an ambient temp. of 25℃)		≤15min	
Cooling Time (Cool down to -80℃ in an ambient temp. of 25℃)		≤4h	
Control System		Microprocessor control	
Display		LED	
Alarm		High/low temperature alarm, power failure alarm(72h), controller failure alarm, door ajar alarm	
Refrigeration Type		Direct-cooling	
Refrigerant		R600a/R1150/R14, 175g	R600a/R1150/R14, 293g
Compressor		International famous brand compressor/1	
Condenser & Evaporator		Micro channel condenser; built-in coil type, copper pipe	Built-in coil type copper pipe; copper tube and aluminum fin
Defrost		Manual defrost	
Construction		Polyurethane cyclopentane foam	
Material	Internal Material	SUS304 stainless steel	
	External Material	Sprayed steel plate	
Door		Outer door: cyclopentane monomer foam door*1 Inner door: cyclopentane monolithic foaming, stainless steel door*3	Outer door: cyclopentane monomer foam door*1 Inner door: cyclopentane monolithic foaming, stainless steel door*2
Noise		55dB(A)	
Consumption		650W Apparent power: 858VA	
Power Supply		AC220V, 50Hz (Standard); 220V, 60Hz, 110V, 60Hz (Optional)	
Casters		Yes	
Shelf		2	3
Standard Accessory		Test port*2	
Optional Accessory		RS485 interface, USB interface, liquid nitrogen backup system,temperature recorder	
Internal Size(W*D*H)		465*455*820mm	490*612*1150mm
External Size(W*D*H)		844*807*1594mm	869*989*1924mm
Package Size(W*D*H)		1000*970*1790mm	1020*1180*2130mm
Net Weight		168kg	232kg
Gross Weight		221kg	300kg