

Ultralow temperature freezer-DFU/DFU-P

Upright type Single door

Product features and specifications

- Realization of powerful and stable -86°C freezing performance with application of Two stage Auto cascade system
- The controller attached at the user's eye level
- Use of CFC-free special mixed refrigerants
- Application of aerodynamically designed pan wings equipped with huge capacity and high performance
- Hermetic compressor for LBP with excellent performance
- Use of 130mm high density urethane insulating materials to minimize cold air loss
- Non scaling stainless chamber and 1 or 2 stainless doors inside
- Strong structure frame and impact resistant powder coating finishing
- Round corner design for easy cleaning
- Prevention of condensation and the chill loss with three-layered wrinkle packing
- Filter cover for easy cleaning and washable filter
- Chest type cabinet structure
- Temperature for hard condition resistant test +32°C
- Temperature measuring sensor: platinum PT-100Ω(Class A 0.15 grade)
- Prevention of frost with Rim Heating system
- RS-232 Data port and Interface which is available for store, control and monitor temperature data via user's PC
- Equipped with the port for auto vacuum release



Control system

- Micro processor control system /Digital temperature indicator which adjust the temperature by 0.1°C
- Functions for setting double passwords to prevent access or control except administrators
- Data locking function

Alarm system and safety devices

- Alarm for filter cleaning period (Warm Condenser alarm)
- Alarm for high/low temperature of sight and auditory
- Equipped with pressure switch
- Equipped with overheating prevention switch
- Auto return system after blackout

Ultralow temperature freezer (Upright freezer)

Model	DFU-128			DFU-256			DFU-374			DFU-446			DFU-558			DFU-657			DFU-740			DFU-800			DFU-868					
Temperature range	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE
	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C
External size	W710 x D750 x H1390			W710 x D750 x H1990			W860 x D800 x H1951			W860 x D900 x H1951			W1010 x D900 x H1901			W1010 x D990 x H1901			W1010 x D1010 x H2001			W1010 x D1080 x H2001			W1010 x D1151 x H2001					
Internal size	W450 x D475 x H600			W450 x D475 x H1200			W600 x D520 x H1200			W600 x D620 x H1200			W750 x D620 x H1200			W750 x D730 x H1200			W750 x D750 x H1300			W750 x D820 x H1300			W750 x D891 x H1300					
Inside measurement	128L			256L			374L			446L			558L			657L			731L			800L			868L					
Electric capacity	Capacity necessary for installment AC220V 1ph (50/60Hz)																													
Weight	210kg			300kg			370kg			380kg			400kg			420kg			450kg			470kg			500kg					

Ultralow temperature freezer (Power Plus model-Upright type) for Tropical climate

- Upright type Power Plus model- the freezer appropriate for the surrounding temperature +40°C and over

Model	DFU-128P			DFU-256P			DFU-374P			DFU-446P			DFU-558P			DFU-657P			DFU-740P			DFU-800P			DFU-868P					
Temperature range	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE	AE	BE	CE
	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C	-40°C	-55°C	-86°C
External size	W710 x D750 x H1390			W710 x D750 x H1990			W860 x D800 x H1951			W860 x D900 x H1951			W1010 x D900 x H1901			W1010 x D990 x H1901			W1010 x D1010 x H2001			W1010 x D1080 x H2001			W1010 x D1151 x H2001					
Internal size	W450 x D475 x H600			W450 x D475 x H1200			W600 x D520 x H1200			W600 x D620 x H1200			W750 x D620 x H1200			W750 x D730 x H1200			W750 x D750 x H1300			W750 x D820 x H1300			W750 x D891 x H1300					
Inside measurement	128L			256L			347L			446L			558L			657L			731L			800L			868L					
Electric capacity	Capacity necessary for installment AC220V 1ph (50/60Hz)																													
Weight	220kg			310kg			380kg			390kg			410kg			430kg			460kg			470kg			510kg					

Options

Rack / Box / CO2 Backup system / LCD touch screen with SD card(or USB) - Basic -1channel (sensor 3channel, 6channel options) / U-system (remote alarm system and wireless control system – telecommunication subscription needed) / Automatic voltage regulator / Cryogenic gloves / Battery backup (Control panel and alarm) / Recorder / VIP / *The minimum temperature of ultralow temperature freezer(C-type) is supplied with -91°C performance if the customer requests.