-86°C ULT Freezer		Self-cascade system					
	Model	**DF86-50L**	**DF86-180L**	**DF86-340L**	**DF86-400L**	**DF86-550L**	**DF86-800L**
Specificaitons	**Shelf/drawer QTY**	Stainless steel shelf/1	Stainless steel shelf/2	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3
	Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	Mixed-gas	Mixed-gas	Mixed-gas	Mixed-gas	Mixed-gas	Mixed-gas
	Power Consumption(kWh/24h)	6.5	8.2	11.2	12	16.5	18.8
	Noise（db)	49.5	52	52	50	53	55
	Ambient temperature（℃)	10~32℃	10~32℃	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range（℃)	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃
Cooling system	**Compressor brand/QTY**	SECOP/1	CUBIGEL/1	SECOP/1	SECOP/1	SECOP/2	SECOP/2
	Sensor	PTC	PTC	PTC	PTC	PTC	PTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	Digital display	Digital display	Digital display	Digital display	Digital display	Digital display
Power	**Voltage/frequency（V/Hz)**	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz
	Power（W)	450W	660W	810W	890W	1500W	1700W
	Current（A)	3.1A	4.3A	5A	4.6A	9.1A	9.8A
Material	**Inside material**	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF	PURF	PURF	PURF	PURF	PURF
Size	**Capacity（L/cu.ft)**	50/1.76	188/6.63	340/12	408/14.40	588/20.76	838/29.59
	NT./GT.（kg)	86.6/115	174/224	222/283.5	234/291	290/360	344/430
	Exterior size(W*D*H)(mm)	630*705*1150	850*930*1595	875*980*1900	890*930*1945	880*1090*1995	1175*1075*1990
	Interior size(W*D*H)(mm)	361*429*406	465*465*830	488*607*1140	606*575*1180	606*738*1310	894*718*1310
	Package size(W*D*H)(mm)	670*730*1300	880*910*1820	935*1070*2130	955*955*2100	970*1140*2190	1270*1100*2185
	CBM	0.64	1.46	2.13	1.92	2.42	3.05
	20GP/40GP/40HQ	24/51/51	12/26/26	12/24/24	12/24/24	12/24/24	8/18/18
Frozen Racks	**Racks**	2(6X2)	9(4X3)	12(4X4)	16(5X4,4X4)	16(5X5)	24(5X5)
	Boxes (2 Inches)	24	108	192	288	400	600
	Samples(2ml)	2400	10800	19200	28800	40000	60000
Alarm	**High/low temperature**	Y	Y	Y	Y	Y	Y
	Power failure	/	Y	Y	Y	Y	Y
	Abnormal voltage	/	Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y	Y
	Filter screen check	/	Y	Y	Y	Y	Y
	Thermostat failure	Y	Y	Y	Y	Y	Y
	Low battery	/	Y	Y	Y	Y	Y
	Condenser clean	/	Y	Y	Y	Y	Y
	High ambient temperature	/	Y	Y	Y	Y	Y
	Door ajar	/	Y	Y	Y	Y	Y
Accessories	**Castor**	Y	Y	Y	Y	Y	Y
	Inside door	1	3	2	2	2	2
	Test hole QTY/diameter	1	1/25MM	1/25MM	1/25MM	1/25MM	1/25MM
	USB port	/	Y	Y	Y	Y	Y
	Chart recorder	/	/	/	/	/	/
	Data logger	/	/	/	/	/	/
	Power failure backup system(alarm)	/	72h	72h	72h	72h	72h
	Remote alarm port	/	Y	Y	Y	Y	Y
Optional	**CO2 back up system**	Optional	Optional	Optional	Optional	Optional	Optional
	LN2 back up system	Optional	Optional	Optional	Optional	Optional	Optional

		Cascade System					
	Model	**DFT86-300L**	**DFT86-400L**	**DFT86-500L**	**DFT86-800L**	**DFT86-700L**	**DFT86-800L**
Specificaitons	**Shelf/drawer QTY**	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3
	Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	HC	HC	HC	HC	HC	HC
	Power Consumption(kWh/24h)	12.8	11.6	12	14.7	15.4	15
	Noise（db)	50	50	53	55	53	53
	Ambient temperature（℃)	10~32℃	10~32℃	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range（℃)	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃
Cooling system	**Compressor brand/QTY**	SECOP/2	SECOP/2	SECOP/2	SECOP/2	SECOP/2	SECOP/2
	Sensor	PTC	PTC	PTC	PTC	PTC	PTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LCD display	LCD display	LCD display	Digital display	LCD display	LCD display
Power	**Voltage/frequency（V/Hz)**	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz
	Power（W)	870W	845W	815W	808W	935W	890W
	Current（A)	6.75A	7A	7A	7A	7A	7A
Material	**Inside material**	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF	PURF	PURF	PURF	PURF	PURF
Size	**Capacity（L/cu.ft)**	338/11.93	408/14.40	588/20.76	688/24.29	728/25.70	838/29.59
	NT./GT.（kg)	250/305	292/317	307/368	330/427.5	360/401.5	397/430
	Exterior size(W*D*H)(mm)	880*980*1940	900*940*1940	880*1080*2000	1375*975*1900	1260*890*2010	1190*1045*2010
	Interior size(W*D*H)(mm)	488*607*1140	606*575*1180	606*738*1310	990*607*1140	963*558*1350	894×718×1310
	Package size(W*D*H)(mm)	940*1070*2130	955*960*2100	975*1140*2200	1440*1075*2140	1320*970*2190	1270*1105*2220
	CBM	2.14	1.93	2.45	3.31	2.80	3.12
	20GP/40GP/40HQ	12/24/24	12/24/24	12/24/ 24	8/16/16	8/18/18	8/18/18
Frozen Racks	**Racks**	12(4X4)	16(5X4,4X4)	16(5X5)	24(4x4)	18(5x4)+6(6x4)	24(5X5)
	Boxes (2 Inches)	192	288	400	384	504	600
	Samples(2ml)	19200	28800	40000	38400	50400	60000
Alarm	**High/low temperature**	Y	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y	Y	Y
	Abnormal voltage	Y	Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y	Y
	Filter screen check	Y	Y	Y	Y	Y	Y
	Thermostat failure	Y	Y	Y	Y	Y	Y
	Low battery	Y	Y	Y	Y	Y	Y
	Condenser clean	Y	Y	Y	Y	Y	Y
	High ambient temperature	Y	Y	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y	Y	Y
Accessories	**Castor**	Y	Y	Y	Y	Y	Y
	Inside door	2	2	2	2	2	2
	Test hole QTY/diameter	2/25MM	1/25MM	1/25MM	2/25MM	1/25MM	1/25MM
	USB port	Y	Y	Y	Y	Y	Y
	Chart recorder	Optional	Optional	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional	Optional	Optional
	Power failure backup system(alarm)	72h	72h	72h	72h	72h	72h
	Remote alarm port	Y	Y	Y	Y	Y	Y
Optional	**CO2 back up system**	Optional	Optional	Optional	Optional	Optional	Optional
	LN2 back up system	Optional	Optional	Optional	Optional	Optional	Optional

		Dual System			Horizontal	
	Model	**DFT86-400LD**	**DFT86-500LD**	**DFT86-800LD**	**DFH86-100L**	**DFH86-400L**
Specificaitons	**Shelf/drawer QTY**	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	/	/
	Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual	Manual
	Refrigerant	Mixed-gas	Mixed-gas	Mixed-gas	Mixed-gas	Mixed-gas
	Power Consumption(kWh/24h)	14.5	16.5	18.8	3.8	11.5
	Noise（db)	53	53	55	50	54.5
	Ambient temperature（℃)	10~32℃	10~35℃	10~32℃	10~32℃	10~32℃
	Temperature range（℃)	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃
Cooling system	**Compressor brand/QTY**	SECOP/2	SECOP/2	SECOP/2	CUBIGEL/1	SECOP/1
	Sensor	PTC	PTC	PTC	PTC	PTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LCD display	LCD display	LCD display	Digital display	Digital display
Power	**Voltage/frequency（V/Hz)**	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz
	Power（W)	1350W	1500W	1700W	500W	670W
	Current（A)	8A	9.1A	9.8A	2.9	3.57
Material	**Inside material**	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF	PURF	PURF	PURF	PURF
Size	**Capacity（L/cu.ft)**	408	588	838	105/3.70	485/17.12
	NT./GT.（kg)	255/307	297.5/358.5	336.5/416	63.7/68.5	127/152.5
	Exterior size(W*D*H)(mm)	900*940*1940	885*1100*1995	1190*1045*2010	680*580*935	1700*830*980
	Interior size(W*D*H)(mm)	606*575*1180	606*738*1310	894*718*1310	480*380*665	1455.5*525.2*674
	Package size(W*D*H)(mm)	955*960*2100	970*1140*2190	1270*1105*2220	770*705*1090	1780*910*1080
	CBM	1.93	2.42	3.12	0.59	1.75
	20GP/40GP/40HQ	12/24/24	12/24/24	8/18/18	24/51/51	6/13/13
Frozen Racks	**Racks**	16(5X4,4X4)	16(5X5)	24(5X5)	4(11X1,6X1)	30(11X1,6X1)
	Boxes (2 Inches)	288	400	600	34	30
	Samples(2ml)	28800	40000	60000	3400	30000
Alarm	**High/low temperature**	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	/	/
	Abnormal voltage	Y	Y	Y	/	/
	Sensor error	Y	Y	Y	Y	Y
	Filter screen check	Y	Y	Y	/	/
	Thermostat failure	Y	Y	Y	Y	Y
	Low battery	Y	Y	Y	/	/
	Condenser clean	Y	Y	Y	/	/
	High ambient temperature	Y	Y	Y	/	/
	Door ajar	Y	Y	Y	/	/
Accessories	**Castor**	Y	Y	Y	Y	Y
	Inside door	2	2	2	/	/
	Test hole QTY/diameter	1/25MM	1/25MM	1/25MM	1/25MM	1/25MM
	USB port	Y	Y	Y	/	/
	Chart recorder	/	/	/	Optional	Optional
	Data logger	/	/	/	Optional	Optional
	Power failure backup system(alarm)	72h	72h	72h	/	/
	Remote alarm port	Y	Y	Y	/	/
Optional	**CO2 back up system**	Optional	Optional	Optional	Optional	Optional
	LN2 back up system	Optional	Optional	Optional	Optional	Optional