

# SPECIFICATIONS

Item		Model	TU85	
Freezing capacity	Conditions	°C	Ambient temperature 35°C	
			RT = -20	RT = 0
	Sub-engine drive	W	6500	11000
Standby motor drive	5200		8400	
Working environment	Inside container temperature	°C	-35 ~ +30	
	Ambient temperature		-20 ~ +40	
Unit dimensions	Condensing unit	W x H x D	mm	1589 × 609 × 695
	Evaporator unit			2000 × 200 × 744
Unit weight	Condensing unit	kg	425	
	Evaporator unit		54	
Drive system			Dedicated sub-engine and standby motor	
Operating system			Automatic start/stop and continuous operation selection	
Sub-engine	Model		3TNV 76 (4-cycle water-cooled vertical diesel engine)	
	Displacement	cm <sup>3</sup>	1116	
	Bore x Stroke x Cylinders	mm	ø 76 × 82 × 3	
	Continuous operation fuel consumption	L/h	1.8 (Ambient temperature 35°C, inside container temperature 0 °C, high speed, at shipment )	
	Oil capacity	L	9.5 (Diesel oil 10W -30, CE (API) or above)	
	Fuel		Light oil ( Diesel fuel ), Intense cold season (Cold weather diesel fuel )	
	Rated output/speed	kW/min <sup>-1</sup>	<High speed> 12.5/2100, <Low speed> 6.9/1500	
Compressor	Model		CS/CSA150E (Open, 3D scroll)	
	Working speed	min <sup>-1</sup>	<High> 3150, <Low> 2250 , <Motor (50Hz)> 2200	
	Refrigeration machine oil charge volume	L	JX Nippon Oil & Energy Corp. Diamond Freeze MA3 2R 1-tier oil separator specification: 0.95 2-tier oil separator specification: 1.25	
Evaporator	Type		Aluminum fin & copper tubes	
	Fan		ø 222mm turbo fan & DC brushless motor x 4	
	Fan speed	min <sup>-1</sup>	2600	
Condenser	Type		Aluminum multi -flow	
	Fan		ø 440mm propeller fan x 1	
	Fan speed	min <sup>-1</sup>	Sub-engine drive: <High speed> 2100, <Low speed> 1500, Standby motor drive ( 50Hz): 1470	
Standby motor	Type		Totally -enclosed fan-cooled outdoor type	
	Power supply		3-phase AC 400V 50Hz	
	Rated output	kW	6.3	
	Number of poles		4	
Refrigerant charge volume		kg	R404A, 4.3	
Inside temperature control			Electronic thermostat	
Operation control			Microcomputer controller	
Defrosting device			Hot gas defrost (Automatic timer and manual )	
Safety device			High-pressure switch, engine oil pressure switch, engine water temperature switch, fusible plug, motor over-current relay , DC circuit fuse, DC circuit fusible link, front panel open detection switch , automatic power supply anti-phase reversal switching and engine clutch temperature sensor	