

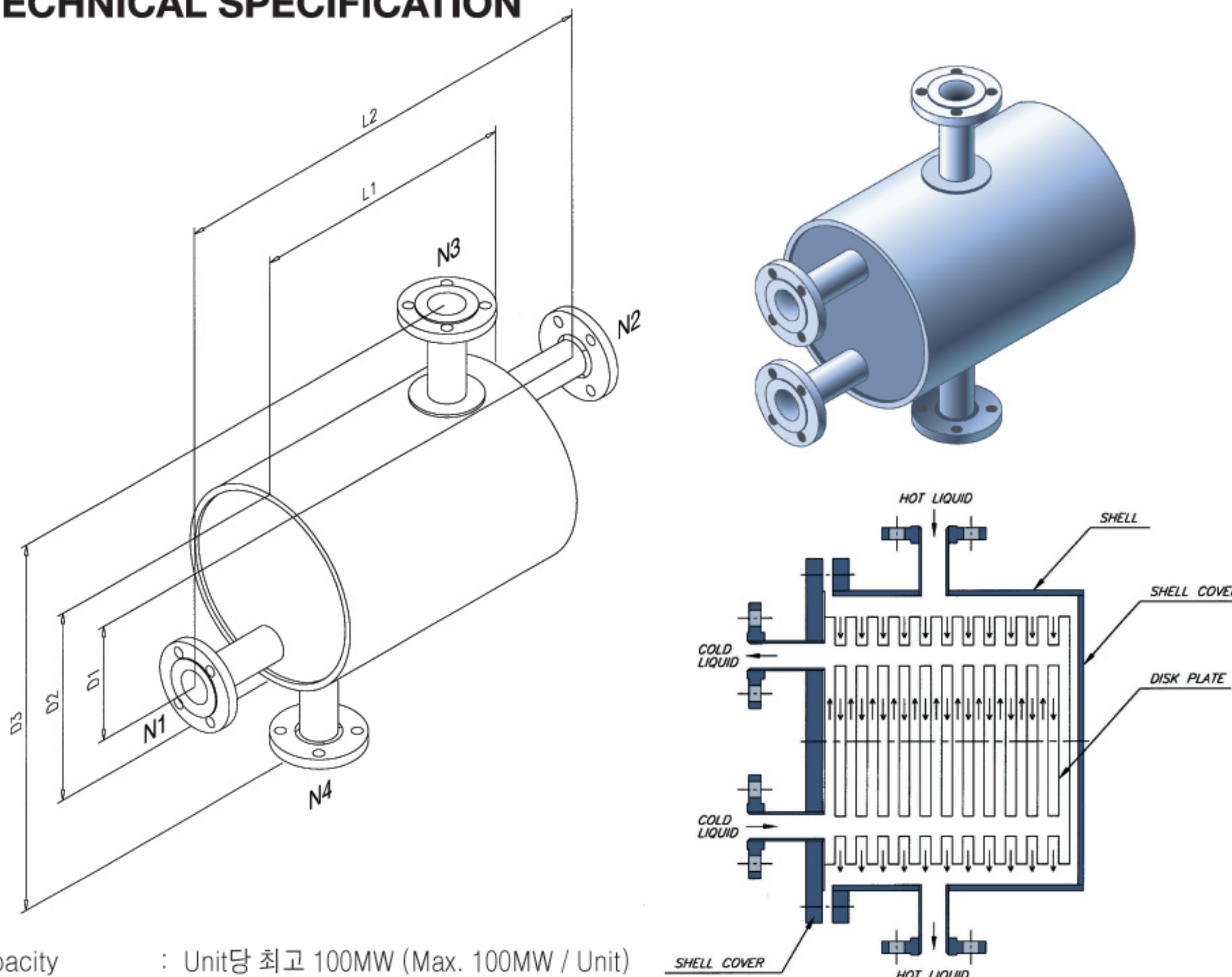
DESIGN INFORMATION

DISK & SHELL TYPE HEAT EXCHANGER

DESIGN INFORMATION

plate type	plate diameter mm	plate thickness (up to 40bar) mm	surface per plate m ²	maximum number of plates	D1 mm	D2 mm	D3	L1(max) mm	L2	N1→N2 (A)	N3→N4 (A)
DPS20	192	0.7	0.032	200	140	219	Variable	580	Variable	20	20-80
DPS35	302	0.7	0.081	330	215	356		1040		50	32-250
DPS60	558	0.7	0.27	460	424	610		1700		100	32-350
DPS120	1000	0.7	0.85	600	748	1200		2100		200	32-700

TECHNICAL SPECIFICATION



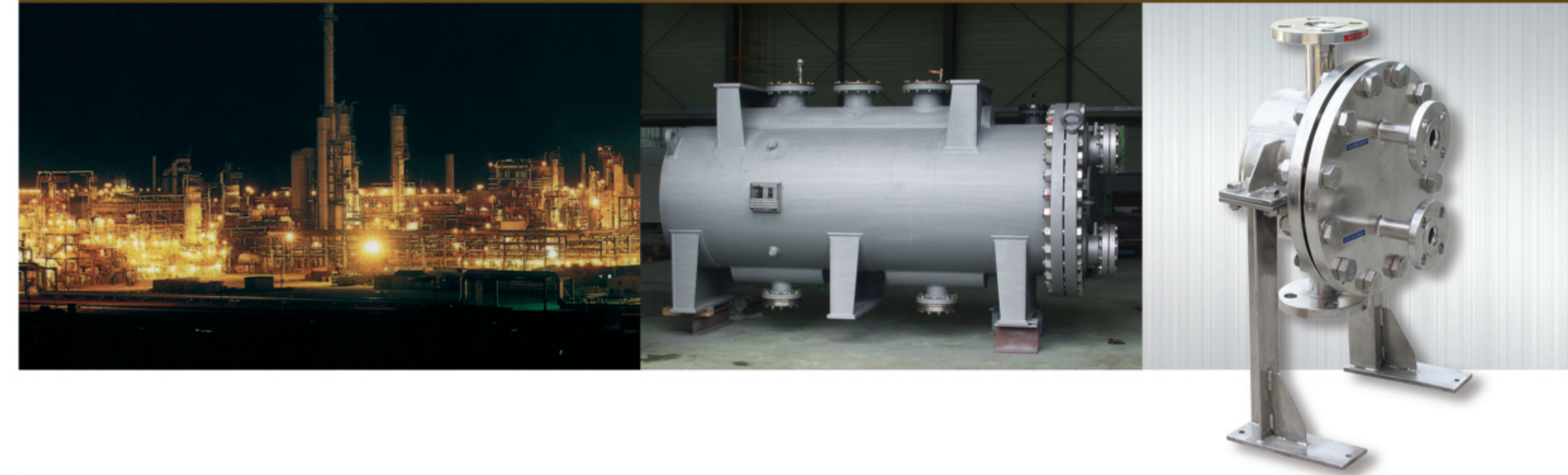
- Capacity : Unit당 최고 100MW (Max. 100MW / Unit)
- Design Temp : -196℃ ~ +400℃
- Design Pressure : 최고 100bar (Max. 100bar)
- 재질(Material) : Shell : SS 400, SUS 304, SUS 316, Titanium, 254 SMO 등
Plate : SUS 316, 254 SMO, Titanium, Nickel 등

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Disk & Shell Type Heat Exchanger



DISK & SHELL TYPE 열교환기

DISK & SHELL TYPE HEAT EXCHANGER

지난 20여년간 판형열교환기의 개발에만 전념해온 대원열판에서 새로이 개발한 Disk & Shell Type 열교환기는 Plate Type 열교환기와 Shell & Tube Type 열교환기의 장점만을 살린 제품으로 Gasket을 사용하지 않고 100% 용접식의 경우 최대 내압이 100bar이며 효율은 Shell & Tube Type의 4 ~ 5 배에 달한다.



ISO 9001



ASME 'U' STAMP
JULY, 2001

DHP's new model of Disk & Shell type Heat Exchanger was developed in the concept of extracting good points from Plate type Heat Exchanger and Shell & Tube type Heat Exchanger i.e., this model does not use gasket and can be used at the operating condition of 100bar pressure and 350°C temperature. And its efficiency is up to 4~5 times higher than that of Shell & Tube type.

■ 성능비교표 (Performance Comparison of Heat Exchangers)

항목 Item	단위 Unit	기종 Type	SHELL & TUBE TYPE	SPIRAL TYPE	PLATE TYPE	BRAZED TYPE	DISK & SHELL TYPE
중량 Weight	Kg		1000 基準	800	500	300	200
체적 Volume	m ³		1.0	0.7	0.4	0.2	0.2
적용분야 Application			LIQ : LIQ GAS : LIQ GAS : GAS	LIQ : LIQ GAS : LIQ GAS : GAS	LIQ : LIQ STEAM : LIQ	LIQ : LIQ GAS : LIQ (小容量)	LIQ : LIQ GAS : LIQ GAS : GAS
최고사용압력 Max. Oper. Press.	Bar		F.V~1000	F.V~16	16	25	F.V~100
최고사용온도 Max. Oper. Temp.	°C		-	300	-40~180	-40~230	-196~400
전열형상 Shape	-		Tube	Plate	Corrogation Plate	Corrogation Plate	Corrogation Plate
K value	kcal/m ² hr°C		200-1500	600-2500	Max 6000	Max 6000	Max 6000
Efficiency of Plate	%		-	100	75	80	100
유지보수비용 Maintenance cost	100 基準		100	60	60	Undisassemble	40



DISK & SHELL TYPE 열교환기 (적용예)

DISK & SHELL TYPE HEAT EXCHANGER APPLICATION

1 LIQUID : LIQUID 	2 GAS(AIR) COOLING 	3 TOP CONDENSER
4 KETTLE TYPE EVAPORATOR (증발기) 	5 COMPRESSOR AIR COOLING 	6 VAPOR CONDENSER
7 LINE HEATER & COOLER (소형) 	8 BOILER or 소각로용 ECONOMIZER 	9 HTST SYSTEM (식품)
10 OIL HEATER 	11 WASTE GAS HEAT RECOVERY SYSTEM 	12 EVAPORATOR & FILLING (증발농축)