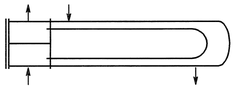
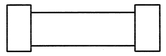
HEAT EXCHANGERS


U-TUBE HEAT EXCHANGER


STRAIGHT TUBE HEAT EXCHANGER

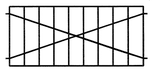
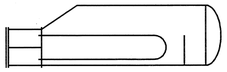
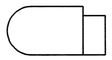
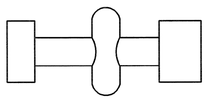


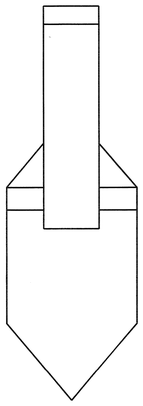
PLATE TYPE HEAT EXCHANGER


REBOILER

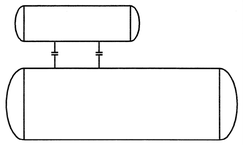

ELECTRIC BOILER

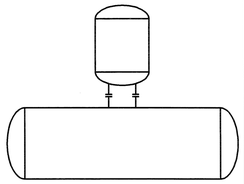
SAMPLE COOLER

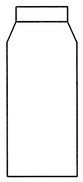

AFTERCOOLER

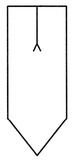

EVAPORATOR/
CRYSTALIZER

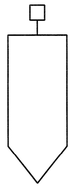
HEAT EXCHANGERS (CONT.)

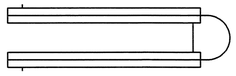

HORIZONTAL DEAERATOR AND STORAGE TANK

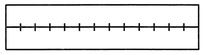

VERTICAL DEAERATOR AND STORAGE TANK


CONDENSER

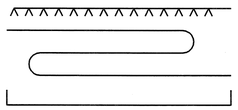

JET CONDENSER


BAROMETRIC CONDENSER

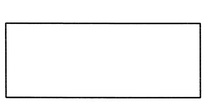

DOUBLE PIPE EXCHANGER

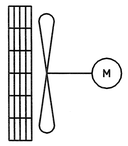

FINNED TUBE EXCHANGER

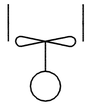
HEAT EXCHANGERS (CONT.)

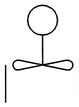

SPRAY COOLER EXCHANGER

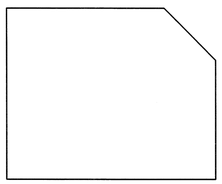
OIL COOLER

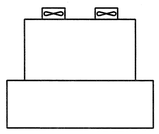

GENERIC


INDUCED DRAFT COOLER WITH STRAIGHT COIL

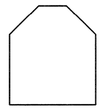

FORCED DRAFT
AIR COOLER

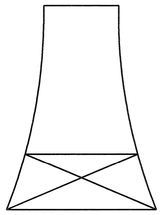

INDUCED DRAFT
AIR COOLER


BOILER


MECHANICAL DRAFT
COOLING TOWER

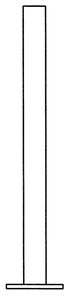
HEATING & COOLING ELEMENTS

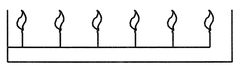

HEATER


NATURAL DRAFT

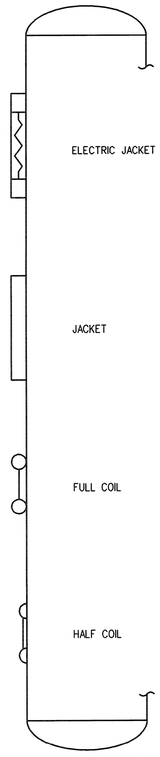
DESUPERHEATER

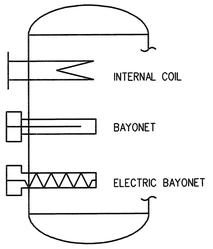
ELEVATED BURNER STACK

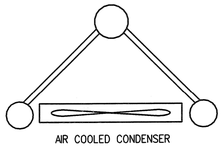

SELF SUPPORTING FLARE

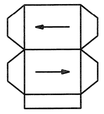

GROUND FLARE

HEATING & COOLING ELEMENTS

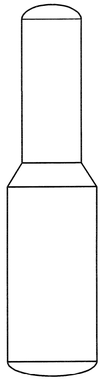

ELECTRIC JACKET
JACKET
FULL COIL
HALF COIL

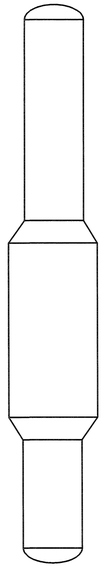

INTERNAL COIL
BAYONET
ELECTRIC BAYONET

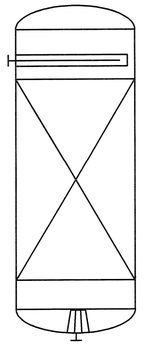

AIR COOLED CONDENSER


AIR PREHEATER

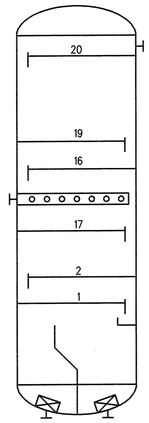
DISTILLATION COLUMNS AND TRAYS


DISTILLATION COLUMN


DISTILLATION COLUMN


REACTOR WITH INLET DISTRIBUTOR
AND BASKET OUTLET

CALIBRATION
COLUMN



REACTOR WITH INLET
DISTRIBUTOR AND
BASKET OUTLET

SIDE SEAL PAN

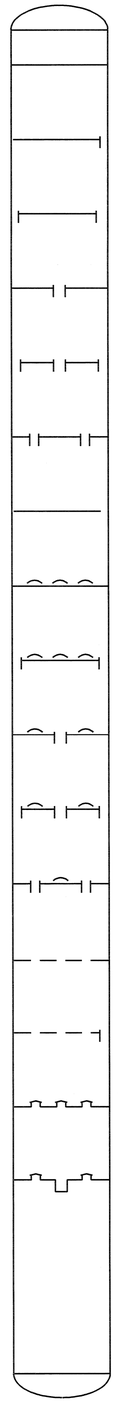
CENTER SEAL PAN

DRAW OFF PAN

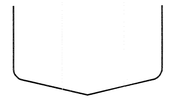
DRAW OFF PAN

SHED

DISTILLATION COLUMNS AND TRAYS (CONT.)



TRANSPORTATION EQUIPMENT


SHIP

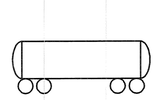
BARGE

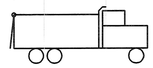
GONDOLA RAILCAR

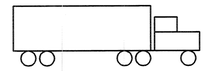
BOX RAILCAR

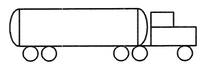
FLAT RAILCAR

TANK RAILCAR (FRONT)


TANK RAILCAR (SIDE)


DUMP TRUCK


BOX TRUCK


TANK TRUCK

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NO.	DATE	REVISIONS	BY	CHK	MECH SUPV	CS SUPV	PD SUPV	PROJ ENGR
0	08/08/08	ISSUED FOR USE						

SCALE | DESIGNED | DRAWN | PM

BECHTEL POWER CORPORATION
FREDERICK, MARYLAND

CO2 KARSTO PROJECT

PIPING & INSTRUMENT DIAGRAM SYMBOLS AND LEGENDS

GASSNOVA	OWNER DOCUMENT NUMBER	BECHTEL	JOB NO.	DRAWING NO.	REV
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