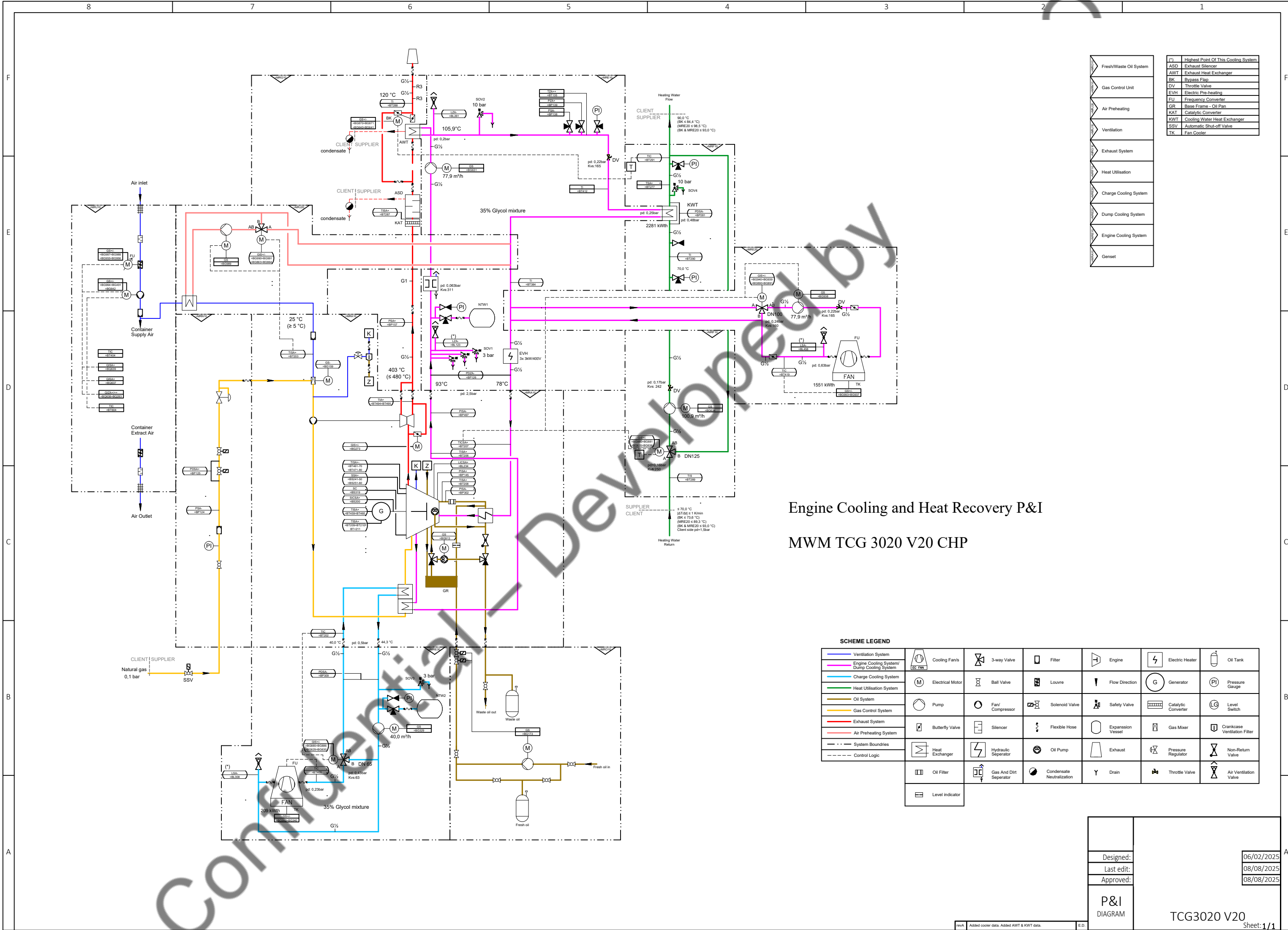


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Engine Cooling and Heat Recovery P&I
MWM TCG 3020 V20 CHP

SCHEME LEGEND									
Ventilation System	EC FAN	Cooling Fan/s	3-way Valve	Filter	Engine	Electric Heater	Oil Tank		
Engine Cooling System/ Dump Cooling System	(M)	Electrical Motor	Ball Valve	Louvre	Flow Direction	Generator	Pressure Gauge		
Charge Cooling System		Pump	Fan/ Compressor	Solenoid Valve	Safety Valve	Catalytic Converter	Level Switch		
Heat Utilisation System		Butterfly Valve	Silencer	Flexible Hose	Expansion Vessel	Gas Mixer	Crankcase Ventilation Filter		
Oil System		Heat Exchanger	Hydraulic Separator	Oil Pump	Exhaust	Pressure Regulator	Non-Return Valve		
Gas Control System		Oil Filter	Gas And Dirt Separator	Condensate Neutralization	Drain	Throttle Valve	Air Ventilation Valve		
Exhaust System		Level Indicator							
Air Preheating System									
System Boundaries									
Control Logic									

Highest Point Of This Cooling System	
ASD	Exhaust Silencer
AWT	Exhaust Heat Exchanger
BK	Bypass Flap
DV	Throttle Valve
EVH	Electric Pre-heating
FU	Frequency Converter
GR	Base Frame-Oil Pan
KAT	Catalytic Converter
KWT	Cooling Water Heat Exchanger
SSV	Automatic Shut-off Valve
TK	Fan Cooler

Fresh/Waste Oil System	
Gas Control Unit	
Air Preheating	
Ventilation	
Exhaust System	
Heat Utilisation	
Charge Cooling System	
Dump Cooling System	
Engine Cooling System	
Genset	

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P&I DIAGRAM	TCG3020 V20
Sheet: 1/1	