


# TYPICAL OVERALL HEAT TRANSFER COEFFICIENTS (U - VALUES)

Air Cooled Exchangers	Process Fluid		U [W/m <sup>2</sup> C]
	Water		300 - 450
	Light organics		300 - 700
	Heavy organics		50 - 150
	Gases		50 - 300
	Condensing hydrocarbons		300 - 600
Immersed coils	Coil	Pool	U [W/m <sup>2</sup> C]
<b>Natural circulation</b>	Steam	Dilute aqueuous solutions	500 - 1000
	Steam	Light oils	200 - 300
	Steam	Heavy oils	70 - 150
	Aqueuous solutions	Water	200 - 500
	Light oils	Water	100 - 150
<b>Agitated</b>	Steam	Dilute aqueuous solutions	800 - 1500
	Steam	Light oils	300 - 500
	Steam	Heavy oils	200 - 400
	Aqueuous solutions	Water	400 - 700
	Light oils	Water	200 - 300
Jacketed vessels	Jacket	Vessel	U [W/m <sup>2</sup> C]
	Steam	Dilute aqueuous solutions	500 - 700
	Steam	Light organics	250 - 500
	Water	Dilute aqueuous solutions	200 - 500
	Water	Light organics	200 - 300