Mixing Chamber

purpose: to combine fluid streams

at constant pressure

Problem 6.91	1 Wer = 0	Assumptions:
(2)	<u> </u>	1. SSS F
	3	2. ske, spe = 0
		,
	R-4100	
	4	
(1)		
	Qcv	
line 1	line 2	line 3
m, = 2 kg/s R-4100	$m_2 = 1 kg/s$	P3 = 1 MPa
P,= 1 MPa	T2 = 15°C	T3 = 60°C
T ₁ = 40°C	X 2 50%	

Find the rate of heat transfer.