

motor	motor	motor001a,power	38,32	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	26,82	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	33,1119	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	220,2	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	233,327	°C
htex_co	htex_co	htex_co001,dt_out	132,377	°C
htex_co	htex_co	htex_co001,htc_area	0,089832	kW/K
htex_co	htex_co	htex_co001,q_trans	16	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	3	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	-5	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	3	---
shaft	shaft	shaft003,power	-37,5574	kW

Sprężarka

Moc napędowa 2 stopnie 65,14 kW

Rozprężarka

delta hs 220,2 kJ/kg

Moc do sprężarki 49,22117647 kW

Silnik

Spręż - rozpręż 15,91882353 kW

COP grzanie 1,005099401

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-26,2864	kW
shaft	shaft	shaft001, power	33,7842	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	9,02282	°C
stream	stream	stream00 6,h	9,14947	kJ/kg
stream	stream	stream00 6,s	6,8342	kJ/kgK
stream	stream	stream00 6,v	0,81552	m3/kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	60	°C
stream	stream	stream00 5,h	251,306	kJ/kg
stream	stream	stream00 5,s	0,83117	kJ/kgK
stream	stream	stream00 5,v	0,001029	m3/kg
stream	stream	stream00 5,mass	0,1914	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	40	°C
stream	stream	stream00 4,h	167,712	kJ/kg
stream	stream	stream00 4,s	0,57256	kJ/kgK
stream	stream	stream00 4,v	0,001017	m3/kg
stream	stream	stream00 4,mass	0,191402	kg/s
stream	stream	stream00 3,p	9	bar
stream	stream	stream00 3,t	192,377	°C
stream	stream	stream00 3,h	196,319	kJ/kg
stream	stream	stream00 3,s	6,70984	kJ/kgK
stream	stream	stream00 3,v	0,14949	m3/kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	9	bar
stream	stream	stream00 2a,t	273,327	°C
stream	stream	stream00 2a,h	280,53	kJ/kg
stream	stream	stream00 2a,s	6,8766	kJ/kgK
stream	stream	stream00 2a,v	0,17549	m3/kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	3	bar
stream	stream	stream00 2,t	110,691	°C
stream	stream	stream00 2,h	112,51	kJ/kg
stream	stream	stream00 2,s	6,8294	kJ/kgK

stream	stream	stream002,v	0,36978	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	-5	°C
stream	stream	stream001,h	-5,087	kJ/kg
stream	stream	stream001,s	6,7824	kJ/kgK
stream	stream	stream001,v	0,77498	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	186,499	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	148,522	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	165,527	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	122,91	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	140,95	°C
htex_co	htex_co	htex_co001,dt_out	59,9317	°C
htex_co	htex_co	htex_co001,htc_area	1,26668	kW/K
htex_co	htex_co	htex_co001,q_trans	140	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2	---
source	source	source001,mass	1,64842	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2	---
shaft	shaft	shaft003,power	-182,788	kW

Sprężarka

Moc napędowa 2 stopnie 335,021 kW

Rozprężarka

delta hs 122,91 kJ/kg

Moc do sprężarki 238,3615 kW

Silnik

Spręż - rozpręż 96,65947 kW

COP grzanie 1,448384

COP grzanie dr Warczak 2,880952

Uwaga: duży strumień powietrza

shaft	shaft	shaft002, power	-145,566	kW
shaft	shaft	shaft001, power	168,888	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	3,83836	°C
stream	stream	stream00 6,h	3,88665	kJ/kg
stream	stream	stream00 6,s	6,81533	kJ/kgK
stream	stream	stream00 6,v	0,800526	m ³ /kg
stream	stream	stream00 6,mass	01,01,648 4	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	50	°C
stream	stream	stream00 5,h	209,498	kJ/kg
stream	stream	stream00 5,s	0,70383	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	01,02,871 8	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	40	°C
stream	stream	stream00 4,h	167,712	kJ/kg
stream	stream	stream00 4,s	0,57256	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	2,87176	kg/s
stream	stream	stream00 3,p	4	bar
stream	stream	stream00 3,t	109,932	°C
stream	stream	stream00 3,h	111,735	kJ/kg
stream	stream	stream00 3,s	6,74427	kJ/kgK
stream	stream	stream00 3,v	0,276787	m ³ /kg
stream	stream	stream00 3,mass	01,01,648 4	kg/s
stream	stream	stream00 2a,p	4	bar
stream	stream	stream00 2a,t	180,95	°C
stream	stream	stream00 2a,h	184,533	kJ/kg
stream	stream	stream00 2a,s	6,91857	kJ/kgK
stream	stream	stream00 2a,v	0,328099	m ³ /kg
stream	stream	stream00 2a,mass	01,01,648 4	kg/s
stream	stream	stream00 2,p	2	bar
stream	stream	stream00 2,t	88,8794	°C
stream	stream	stream00 2,h	90,2779	kJ/kg
stream	stream	stream00 2,s	6,88698	kJ/kgK

stream	stream	stream002,v	0,523152	m3/kg
stream	stream	stream002,mass	01,01,6484	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	01,06,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	01,01,6484	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	21,4958	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	17,1191	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	20,5784	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	136,85	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	110,947	°C
htex_co	htex_co	htex_co001,dt_out	49,9565	°C
htex_co	htex_co	htex_co001,htc_area	0,10466	kW/K
htex_co	htex_co	htex_co001,q_trans	8	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2	---
shaft	shaft	shaft003,power	-21,068	kW

Sprężarka

Moc napędowa 2 stopnie 38,6149 kW

Rozprężarka

delta hs 136,85 kJ/kg

Moc do sprężarki 30,59 kW

Silnik

Spręż - rozpręż 8,0249 kW

COP grzanie 0,996897158

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-16,7785	kW
shaft	shaft	shaft001, power	20,9962	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	25,7252	°C
stream	stream	stream00 6,h	26,1022	kJ/kg
stream	stream	stream00 6,s	6,8925	kJ/kgK
stream	stream	stream00 6,v	0,86377	m3/kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m3/kg
stream	stream	stream00 5,mass	0,095337	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m3/kg
stream	stream	stream00 4,mass	0,095337	kg/s
stream	stream	stream00 3,p	4	bar
stream	stream	stream00 3,t	139,957	°C
stream	stream	stream00 3,h	142,425	kJ/kg
stream	stream	stream00 3,s	6,8214	kJ/kgK
stream	stream	stream00 3,v	0,29848	m3/kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4	bar
stream	stream	stream00 2a,t	180,947	°C
stream	stream	stream00 2a,h	184,53	kJ/kg
stream	stream	stream00 2a,s	6,9186	kJ/kgK
stream	stream	stream00 2a,v	0,3281	m3/kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2	bar
stream	stream	stream00 2,t	88,8795	°C
stream	stream	stream00 2,h	90,278	kJ/kg
stream	stream	stream00 2,s	6,887	kJ/kgK

stream	stream	stream002,v	0,52315	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	21,4958	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	17,1191	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	19,5483	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	130	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	110,947	°C
htex_co	htex_co	htex_co001,dt_out	29,3718	°C
htex_co	htex_co	htex_co001,htc_area	0,1955	kW/K
htex_co	htex_co	htex_co001,q_trans	12	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2	---
shaft	shaft	shaft003,power	-21,068	kW

Sprężarka

Moc napędowa 2 stopnie 38,6149 kW

Rozprężarka

delta hs 130 kJ/kg

Moc do sprężarki 29,05882353 kW

Silnik

Spręż - rozpręż 9,556076471 kW

COP grzanie 1,255745497

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-16,7785	kW
shaft	shaft	shaft001, power	19,9452	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	10,7199	°C
stream	stream	stream00 6,h	10,8721	kJ/kg
stream	stream	stream00 6,s	6,8402	kJ/kgK
stream	stream	stream00 6,v	0,82042	m3/kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m3/kg
stream	stream	stream00 5,mass	0,14301	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m3/kg
stream	stream	stream00 4,mass	0,143005	kg/s
stream	stream	stream00 3,p	4	bar
stream	stream	stream00 3,t	119,372	°C
stream	stream	stream00 3,h	121,372	kJ/kg
stream	stream	stream00 3,s	6,7691	kJ/kgK
stream	stream	stream00 3,v	0,28361	m3/kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4	bar
stream	stream	stream00 2a,t	180,947	°C
stream	stream	stream00 2a,h	184,53	kJ/kg
stream	stream	stream00 2a,s	6,9186	kJ/kgK
stream	stream	stream00 2a,v	0,3281	m3/kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2	bar
stream	stream	stream00 2,t	88,8795	°C
stream	stream	stream00 2,h	90,278	kJ/kg
stream	stream	stream00 2,s	6,887	kJ/kgK

stream	stream	stream002,v	0,52315	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	21,4958	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	17,1191	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	19,0358	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	126,592	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	110,947	°C
htex_co	htex_co	htex_co001,dt_out	19,0602	°C
htex_co	htex_co	htex_co001,htc_area	0,268376	kW/K
htex_co	htex_co	htex_co001,q_trans	14	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2	---
shaft	shaft	shaft003,power	-21,068	kW

Sprężarka

Moc napędowa 2 stopnie 38,6149 kW

Rozprężarka

delta hs 126,592 kJ/kg

Moc do sprężarki 28,29703529 kW

Silnik

Spręż - rozpręż 10,31786471 kW

COP grzanie 1,356869895

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-16,7785	kW
shaft	shaft	shaft001, power	19,4223	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	3,20431	°C
stream	stream	stream00 6,h	3,24297	kJ/kg
stream	stream	stream00 6,s	6,813	kJ/kgK
stream	stream	stream00 6,v	0,798693	m3/kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m3/kg
stream	stream	stream00 5,mass	0,16684	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m3/kg
stream	stream	stream00 4,mass	0,16684	kg/s
stream	stream	stream00 3,p	4	bar
stream	stream	stream00 3,t	109,06	°C
stream	stream	stream00 3,h	110,846	kJ/kg
stream	stream	stream00 3,s	6,74194	kJ/kgK
stream	stream	stream00 3,v	0,276157	m3/kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4	bar
stream	stream	stream00 2a,t	180,947	°C
stream	stream	stream00 2a,h	184,53	kJ/kg
stream	stream	stream00 2a,s	6,9186	kJ/kgK
stream	stream	stream00 2a,v	0,3281	m3/kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2	bar
stream	stream	stream00 2,t	88,8795	°C
stream	stream	stream00 2,h	90,278	kJ/kg
stream	stream	stream00 2,s	6,887	kJ/kgK

stream	stream	stream002,v	0,52315	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	21,4958	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	17,1191	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	18,5202	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	123,162	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	110,947	°C
htex_co	htex_co	htex_co001,dt_out	8,73705	°C
htex_co	htex_co	htex_co001,htc_area	0,397844	kW/K
htex_co	htex_co	htex_co001,q_trans	16	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2	---
shaft	shaft	shaft003,power	-21,068	kW

Sprężarka

Moc napędowa 2 stopnie 38,6149 kW

Rozprężarka

delta hs 123,162 kJ/kg

Moc do sprężarki 27,53032941 kW

Silnik

Spręż - rozpręż 11,08457059 kW

COP grzanie 1,443447888

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-16,7785	kW
shaft	shaft	shaft001, power	18,8962	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	-4,29249	°C
stream	stream	stream00 6,h	-4,36855	kJ/kg
stream	stream	stream00 6,s	6,78508	kJ/kgK
stream	stream	stream00 6,v	0,777027	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,190674	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,190674	kg/s
stream	stream	stream00 3,p	4	bar
stream	stream	stream00 3,t	98,7371	°C
stream	stream	stream00 3,h	100,319	kJ/kg
stream	stream	stream00 3,s	6,71402	kJ/kgK
stream	stream	stream00 3,v	0,268698	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4	bar
stream	stream	stream00 2a,t	180,947	°C
stream	stream	stream00 2a,h	184,53	kJ/kg
stream	stream	stream00 2a,s	6,9186	kJ/kgK
stream	stream	stream00 2a,v	0,3281	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2	bar
stream	stream	stream00 2,t	88,8795	°C
stream	stream	stream00 2,h	90,278	kJ/kg
stream	stream	stream00 2,s	6,887	kJ/kgK

stream	stream	stream002,v	0,52315	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	21,4958	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	17,1191	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	18,2597	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	121,43	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	110,947	°C
htex_co	htex_co	htex_co001,dt_out	3,57112	°C
htex_co	htex_co	htex_co001,htc_area	0,54401	kW/K
htex_co	htex_co	htex_co001,q_trans	17	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2	---
shaft	shaft	shaft003,power	-21,068	kW

Sprężarka

Moc napędowa 2 stopnie 38,6149 kW

Rozprężarka

delta hs 121,43 kJ/kg

Moc do sprężarki 27,14317647 kW

Silnik

Spręż - rozpręż 11,47172353 kW

COP grzanie 1,481904611

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-16,7785	kW
shaft	shaft	shaft001, power	18,6304	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	-8,02554	°C
stream	stream	stream00 6,h	-8,1595	kJ/kg
stream	stream	stream00 6,s	6,7709	kJ/kgK
stream	stream	stream00 6,v	0,76624	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,20259	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,20259	kg/s
stream	stream	stream00 3,p	4	bar
stream	stream	stream00 3,t	93,5711	°C
stream	stream	stream00 3,h	95,056	kJ/kg
stream	stream	stream00 3,s	6,6998	kJ/kgK
stream	stream	stream00 3,v	0,26497	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4	bar
stream	stream	stream00 2a,t	180,947	°C
stream	stream	stream00 2a,h	184,53	kJ/kg
stream	stream	stream00 2a,s	6,9186	kJ/kgK
stream	stream	stream00 2a,v	0,3281	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2	bar
stream	stream	stream00 2,t	88,8795	°C
stream	stream	stream00 2,h	90,278	kJ/kg
stream	stream	stream00 2,s	6,887	kJ/kgK

stream	stream	stream002,v	0,52315	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	25,5692	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	19,7487	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	24,421	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	162,404	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	139,398	°C
htex_co	htex_co	htex_co001,dt_out	78,5955	°C
htex_co	htex_co	htex_co001,htc_area	0,075394	kW/K
htex_co	htex_co	htex_co001,q_trans	8	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2,2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2,2	---
shaft	shaft	shaft003,power	-25,0603	kW

Sprężarka

Moc napędowa 2 stopnie 45,3179 kW

Rozprężarka

delta hs 162,404 kJ/kg

Moc do sprężarki 36,30207059 kW

Silnik

Spręż - rozpręż 9,015829412 kW

COP grzanie 0,887328235

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-19,3557	kW
shaft	shaft	shaft001, power	24,9168	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	33,2805	°C
stream	stream	stream00 6,h	33,7712	kJ/kg
stream	stream	stream00 6,s	6,91786	kJ/kgK
stream	stream	stream00 6,v	0,885617	m3/kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m3/kg
stream	stream	stream00 5,mass	0,095337	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m3/kg
stream	stream	stream00 4,mass	0,095337	kg/s
stream	stream	stream00 3,p	4,84	bar
stream	stream	stream00 3,t	168,595	°C
stream	stream	stream00 3,h	171,814	kJ/kg
stream	stream	stream00 3,s	6,83508	kJ/kgK
stream	stream	stream00 3,v	0,263779	m3/kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4,84	bar
stream	stream	stream00 2a,t	209,398	°C
stream	stream	stream00 2a,h	213,92	kJ/kg
stream	stream	stream00 2a,s	6,92625	kJ/kgK
stream	stream	stream00 2a,v	0,288144	m3/kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2,2	bar
stream	stream	stream00 2,t	100,197	°C
stream	stream	stream00 2,h	101,808	kJ/kg
stream	stream	stream00 2,s	6,8908	kJ/kgK

stream	stream	stream002,v	0,490461	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	25,5687	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	19,7492	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	21,5633	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	143,4	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	139,399	°C
htex_co	htex_co	htex_co001,dt_out	27,2286	°C
htex_co	htex_co	htex_co001,htc_area	0,26206	kW/K
htex_co	htex_co	htex_co001,q_trans	18	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	2,2	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	2,2	---
shaft	shaft	shaft003,power	-25,0599	kW

Sprężarka

Moc napędowa 2 stopnie 45,3179 kW

Rozprężarka

delta hs 143,4 kJ/kg

Moc do sprężarki 32,05411765 kW

Silnik

Spręż - rozpręż 13,26378235 kW

COP grzanie 1,357078963

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-19,3562	kW
shaft	shaft	shaft001, power	22,0011	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	-2,656	°C
stream	stream	stream00 6,h	-2,7068	kJ/kg
stream	stream	stream00 6,s	6,7912	kJ/kgK
stream	stream	stream00 6,v	0,78176	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,21451	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,214508	kg/s
stream	stream	stream00 3,p	4,84	bar
stream	stream	stream00 3,t	117,229	°C
stream	stream	stream00 3,h	119,183	kJ/kg
stream	stream	stream00 3,s	6,70843	kJ/kgK
stream	stream	stream00 3,v	0,23311	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	4,84	bar
stream	stream	stream00 2a,t	209,399	°C
stream	stream	stream00 2a,h	213,92	kJ/kg
stream	stream	stream00 2a,s	6,9262	kJ/kgK
stream	stream	stream00 2a,v	0,28814	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	2,2	bar
stream	stream	stream00 2,t	100,199	°C
stream	stream	stream00 2,h	101,81	kJ/kg
stream	stream	stream00 2,s	6,8908	kJ/kgK

stream	stream	stream002,v	0,49046	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	17,3527	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	14,2942	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	16,6447	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	110,69	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	81,228	°C
htex_co	htex_co	htex_co001,dt_out	20,0658	°C
htex_co	htex_co	htex_co001,htc_area	0,18289	kW/K
htex_co	htex_co	htex_co001,q_trans	8	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	1,8	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	1,8	---
shaft	shaft	shaft003,power	-17,0074	kW

Sprężarka

Moc napędowa 2 stopnie 31,6469 kW

Rozprężarka

delta hs 110,69 kJ/kg

Moc do sprężarki 24,74247059 kW

Silnik

Spręż - rozpręż 6,904429412 kW

COP grzanie 1,158676485

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-14,0097	kW
shaft	shaft	shaft001, power	16,9826	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	17,5309	°C
stream	stream	stream00 6,h	17,7852	kJ/kg
stream	stream	stream00 6,s	6,8643	kJ/kgK
stream	stream	stream00 6,v	0,840099	m3/kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m3/kg
stream	stream	stream00 5,mass	0,095337	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m3/kg
stream	stream	stream00 4,mass	0,095337	kg/s
stream	stream	stream00 3,p	3,24	bar
stream	stream	stream00 3,t	110,066	°C
stream	stream	stream00 3,h	111,872	kJ/kg
stream	stream	stream00 3,s	6,80552	kJ/kgK
stream	stream	stream00 3,v	0,341832	m3/kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	3,24	bar
stream	stream	stream00 2a,t	151,228	°C
stream	stream	stream00 2a,h	153,977	kJ/kg
stream	stream	stream00 2a,s	6,90988	kJ/kgK
stream	stream	stream00 2a,v	0,378549	m3/kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	1,8	bar
stream	stream	stream00 2,t	76,7083	°C
stream	stream	stream00 2,h	77,8914	kJ/kg
stream	stream	stream00 2,s	6,88263	kJ/kgK

stream	stream	stream002,v	0,561738	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	17,3535	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	14,294	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	15,9702	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,85	----
turbine	turbine	turbine001,delta_hs	106,205	kJ/kg
turbine	turbine	turbine001,eta_m	0,95	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	81,231	°C
htex_co	htex_co	htex_co001,dt_out	4,58153	°C
htex_co	htex_co	htex_co001,htc_area	0,41263	kW/K
htex_co	htex_co	htex_co001,q_trans	11	kW
compressor	compressor	compressor001a,eta_m	0,85	----
compressor	compressor	compressor001a,eta_s	0,85	----
compressor	compressor	compressor001a,pressure_ratio	1,8	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,85	----
compressor	compressor	compressor001,eta_s	0,85	----
compressor	compressor	compressor001,pressure_ratio	1,8	---
shaft	shaft	shaft003,power	-17,0081	kW

Sprężarka

Moc napędowa 2 stopnie 31,6475 kW

Rozprężarka

delta hs 106,205 kJ/kg

Moc do sprężarki 23,73994118 kW

Silnik

Spręż - rozpręż 7,907558824 kW

COP grzanie 1,391074065

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-14,0096	kW
shaft	shaft	shaft001, power	16,2945	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	5,73399	°C
stream	stream	stream00 6,h	5,811	kJ/kg
stream	stream	stream00 6,s	6,82225	kJ/kgK
stream	stream	stream00 6,v	0,806004	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,131088	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,131088	kg/s
stream	stream	stream00 3,p	3,24	bar
stream	stream	stream00 3,t	94,5815	°C
stream	stream	stream00 3,h	96,0853	kJ/kg
stream	stream	stream00 3,s	6,76347	kJ/kgK
stream	stream	stream00 3,v	0,32802	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	3,24	bar
stream	stream	stream00 2a,t	151,231	°C
stream	stream	stream00 2a,h	153,98	kJ/kg
stream	stream	stream00 2a,s	6,9099	kJ/kgK
stream	stream	stream00 2a,v	0,37855	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	1,8	bar
stream	stream	stream00 2,t	76,7079	°C
stream	stream	stream00 2,h	77,891	kJ/kg
stream	stream	stream00 2,s	6,8826	kJ/kgK

stream	stream	stream002,v	0,56174	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	12,4737	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	10,5374	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	19,3736	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,99	----
turbine	turbine	turbine001,delta_hs	106,149	kJ/kg
turbine	turbine	turbine001,eta_m	0,99	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	60,484	°C
htex_co	htex_co	htex_co001,dt_out	4,38777	°C
htex_co	htex_co	htex_co001,htc_area	0,327382	kW/K
htex_co	htex_co	htex_co001,q_trans	7	kW
compressor	compressor	compressor001a,eta_m	0,99	----
compressor	compressor	compressor001a,eta_s	0,99	----
compressor	compressor	compressor001a,pressure_ratio	1,8	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,99	----
compressor	compressor	compressor001,eta_s	0,99	----
compressor	compressor	compressor001,pressure_ratio	1,8	---
shaft	shaft	shaft003,power	-12,2254	kW

Sprężarka

Moc napędowa 2 stopnie 23,0111 kW

Rozprężarka

delta hs 106,149 kJ/kg

Moc do sprężarki 20,3720303 kW

Silnik

Spręż - rozpręż 2,639069697 kW

COP grzanie 2,652449842

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-10,3277	kW
shaft	shaft	shaft001, power	19,767	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	-9,04974	°C
stream	stream	stream00 6,h	-9,1997	kJ/kg
stream	stream	stream00 6,s	6,76695	kJ/kgK
stream	stream	stream00 6,v	0,763278	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	90	°C
stream	stream	stream00 5,h	377,069	kJ/kg
stream	stream	stream00 5,s	1,1926	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,08342	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	70	°C
stream	stream	stream00 4,h	293,156	kJ/kg
stream	stream	stream00 4,s	0,9549	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,08342	kg/s
stream	stream	stream00 3,p	3,24	bar
stream	stream	stream00 3,t	94,3878	°C
stream	stream	stream00 3,h	95,8879	kJ/kg
stream	stream	stream00 3,s	6,76294	kJ/kgK
stream	stream	stream00 3,v	0,327847	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	3,24	bar
stream	stream	stream00 2a,t	130,484	°C
stream	stream	stream00 2a,h	132,73	kJ/kg
stream	stream	stream00 2a,s	6,8586	kJ/kgK
stream	stream	stream00 2a,v	0,36004	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	1,8	bar
stream	stream	stream00 2,t	67,993	°C
stream	stream	stream00 2,h	69,029	kJ/kg
stream	stream	stream00 2,s	6,857	kJ/kgK

stream	stream	stream002,v	0,54774	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	9,4793	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	8,2819	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	14,6186	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,99	----
turbine	turbine	turbine001,delta_hs	80,096	kJ/kg
turbine	turbine	turbine001,eta_m	0,99	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	64,2308	°C
htex_co	htex_co	htex_co001,dt_out	2,86328	°C
htex_co	htex_co	htex_co001,htc_area	0,4055	kW/K
htex_co	htex_co	htex_co001,q_trans	8	kW
compressor	compressor	compressor001a,eta_m	0,99	----
compressor	compressor	compressor001a,eta_s	0,99	----
compressor	compressor	compressor001a,pressure_ratio	1,6	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,99	----
compressor	compressor	compressor001,eta_s	0,99	----
compressor	compressor	compressor001,pressure_ratio	1,6	---
shaft	shaft	shaft003,power	-9,2906	kW

Sprężarka

Moc napędowa 2 stopnie 17,7612 kW

Rozprężarka

delta hs 80,096 kJ/kg

Moc do sprężarki 15,3719596 kW

Silnik

Spręż - rozpręż 2,389240404 kW

COP grzanie 3,348344514

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-8,1171	kW
shaft	shaft	shaft001, power	14,9154	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	-15,2324	°C
stream	stream	stream00 6,h	-15,48	kJ/kg
stream	stream	stream00 6,s	6,7429	kJ/kgK
stream	stream	stream00 6,v	0,74541	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	60	°C
stream	stream	stream00 5,h	251,306	kJ/kg
stream	stream	stream00 5,s	0,83117	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,095701	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	40	°C
stream	stream	stream00 4,h	167,712	kJ/kg
stream	stream	stream00 4,s	0,57256	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,095701	kg/s
stream	stream	stream00 3,p	2,56	bar
stream	stream	stream00 3,t	62,8633	°C
stream	stream	stream00 3,h	63,815	kJ/kg
stream	stream	stream00 3,s	6,7398	kJ/kgK
stream	stream	stream00 3,v	0,37934	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	2,56	bar
stream	stream	stream00 2a,t	104,231	°C
stream	stream	stream00 2a,h	105,92	kJ/kg
stream	stream	stream00 2a,s	6,858	kJ/kgK
stream	stream	stream00 2a,v	0,42604	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	1,6	bar
stream	stream	stream00 2,t	56,6591	°C
stream	stream	stream00 2,h	57,511	kJ/kg
stream	stream	stream00 2,s	6,8567	kJ/kgK

stream	stream	stream002,v	0,59574	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg

motor	motor	motor001a,power	6,4069	kW
motor	motor	motor001a,eta_el	0,99	---
motor	motor	motor001a,eta_m	0,99	---
motor	motor	motor001,power	5,8141	kW
motor	motor	motor001,eta_el	0,99	---
motor	motor	motor001,eta_m	0,99	---
generator	generator	generator001,power	10,6246	kW
generator	generator	generator001,eta_el	0,99	---
generator	generator	generator001,eta_m	0,99	---
turbine	turbine	turbine001,eta_s	0,99	----
turbine	turbine	turbine001,delta_hs	58,2128	kJ/kg
turbine	turbine	turbine001,eta_m	0,99	----
htex_co	htex_co	htex_co001,delta_p_hot	0	bar
htex_co	htex_co	htex_co001,delta_p_cold	0	bar
htex_co	htex_co	htex_co001,dt_in	46,4483	°C
htex_co	htex_co	htex_co001,dt_out	5,73714	°C
htex_co	htex_co	htex_co001,htc_area	0,205484	kW/K
htex_co	htex_co	htex_co001,q_trans	4	kW
compressor	compressor	compressor001a,eta_m	0,99	----
compressor	compressor	compressor001a,eta_s	0,99	----
compressor	compressor	compressor001a,pressure_ratio	1,4	---
source	source	source001,mass	0,19	kg/s
source	source	source001,p	1	bar
source	source	source001,t	15	°C
compressor	compressor	compressor001,eta_m	0,99	----
compressor	compressor	compressor001,eta_s	0,99	----
compressor	compressor	compressor001,pressure_ratio	1,4	---
shaft	shaft	shaft003,power	-6,2794	kW

Sprężarka

Moc napędowa 2 stopnie 12,221 kW

Rozprężarka

delta hs 58,2128 kJ/kg

Moc do sprężarki 11,17215354 kW

Silnik

Spręż - rozpręż 1,048846465 kW

COP grzanie 3,813713575

COP grzanie dr Warczak 2,880952381

shaft	shaft	shaft002, power	-5,6984	kW
shaft	shaft	shaft001, power	10,8403	kW
stream	stream	stream00 6,p	1	bar
stream	stream	stream00 6,t	-1,03034	°C
stream	stream	stream00 6,h	-1,05626	kJ/kg
stream	stream	stream00 6,s	6,79732	kJ/kgK
stream	stream	stream00 6,v	0,786455	m ³ /kg
stream	stream	stream00 6,mass	0,19	kg/s
stream	stream	stream00 5,p	2	bar
stream	stream	stream00 5,t	50	°C
stream	stream	stream00 5,h	209,498	kJ/kg
stream	stream	stream00 5,s	0,703832	kJ/kgK
stream	stream	stream00 5,v	0,001029	m ³ /kg
stream	stream	stream00 5,mass	0,047862	kg/s
stream	stream	stream00 4,p	2	bar
stream	stream	stream00 4,t	30	°C
stream	stream	stream00 4,h	125,924	kJ/kg
stream	stream	stream00 4,s	0,437025	kJ/kgK
stream	stream	stream00 4,v	0,001017	m ³ /kg
stream	stream	stream00 4,mass	0,047862	kg/s
stream	stream	stream00 3,p	1,96	bar
stream	stream	stream00 3,t	55,7371	°C
stream	stream	stream00 3,h	56,5744	kJ/kg
stream	stream	stream00 3,s	6,79519	kJ/kgK
stream	stream	stream00 3,v	0,484959	m ³ /kg
stream	stream	stream00 3,mass	0,19	kg/s
stream	stream	stream00 2a,p	1,96	bar
stream	stream	stream00 2a,t	76,4483	°C
stream	stream	stream00 2a,h	77,627	kJ/kg
stream	stream	stream00 2a,s	6,85726	kJ/kgK
stream	stream	stream00 2a,v	0,515498	m ³ /kg
stream	stream	stream00 2a,mass	0,19	kg/s
stream	stream	stream00 2,p	1,4	bar
stream	stream	stream00 2,t	44,2502	°C
stream	stream	stream00 2,h	44,908	kJ/kg
stream	stream	stream00 2,s	6,8563	kJ/kgK

stream	stream	stream002,v	0,655229	m3/kg
stream	stream	stream002,mass	0,19	kg/s
stream	stream	stream001,p	1	bar
stream	stream	stream001,t	15	°C
stream	stream	stream001,h	15,2164	kJ/kg
stream	stream	stream001,s	6,8554	kJ/kgK
stream	stream	stream001,v	0,83278	m3/kg
stream	stream	stream001,mass	0,19	kg/s
composition	composition	water,WATER	1	kg/kg
composition	composition	water,AR	0	kg/kg
composition	composition	water,C2H6	0	kg/kg
composition	composition	water,C3H8	0	kg/kg
composition	composition	water,CH4	0	kg/kg
composition	composition	water,CO	0	kg/kg
composition	composition	water,CO2	0	kg/kg
composition	composition	water,H2	0	kg/kg
composition	composition	water,H2O	0	kg/kg
composition	composition	water,H2S	0	kg/kg
composition	composition	water,N2	0	kg/kg
composition	composition	water,O2	0	kg/kg
composition	composition	water,SO2	0	kg/kg
composition	composition	air,WATER	0	kg/kg
composition	composition	air,AR	0	kg/kg
composition	composition	air,C2H6	0	kg/kg
composition	composition	air,C3H8	0	kg/kg
composition	composition	air,CH4	0	kg/kg
composition	composition	air,CO	0	kg/kg
composition	composition	air,CO2	0	kg/kg
composition	composition	air,H2	0	kg/kg
composition	composition	air,H2O	0	kg/kg
composition	composition	air,H2S	0	kg/kg
composition	composition	air,N2	0,79	kg/kg
composition	composition	air,O2	0,21	kg/kg
composition	composition	air,SO2	0	kg/kg