

MultiCalcReport with Power Plant Simulator & Designer

Off- Design calculation, gas turbine and steam turbines are calculated automatically with data base and formulas about off design behavior

Net: 183979.8 kW
 dPout: 34.6 mbar
 effc: 95.88 %
 t med: 94
 Slack

Input data
 Calculation's values
 Load checked variables

Name	Dimension	[(-)1]	[(+)]2	[(+)]3	[(+)]4	[(+)]5	[(-)6]	[(+)]7	[(+)]8	[(+)]9	[(+)]10	[(+)]11	[(+)]12	[(+)]13	[(+)]14	[(-)15]
GT(Database).Initial data.tRef	C	25	25	25	15	15	15	5	5	5	5	5	5	5	5	15
GT(Database).Initial data.Ngt_rel	%	100.00	80.00	60.00	100.00	80.00	60.00	100.00	80.00	60.00	100.00	80.00	60.00	100.00	80.00	60.00
HP System.Outlet H2O.W H2O	kg/s	83.0	76.3	66.4	88.8	79.0	68.9	88.3	79.2	69.3	88.3	79.3	69.6	88.3	79.4	69.7
HP System.Outlet H2O.p H2O	bar(a)	122.41	112.81	98.72	130.66	116.76	102.20	129.96	117.08	102.88	130.00	117.20	103.28	130.00	117.24	103.46
HP System.Outlet H2O.t H2O	C	568	568	570	568	568	568	568	568	568	568	568	568	568	568	568
IP-RH System.Outlet H2O.W H2O	kg/s	90.0	82.8	72.2	96.4	85.9	74.9	96.2	86.3	75.5	96.5	86.6	75.9	96.7	86.7	76.0
IP-RH System.Outlet H2O.p H2O	bar(a)	31.35	28.85	25.16	33.49	29.88	26.09	33.31	29.97	26.27	33.33	30.00	26.38	33.34	30.02	26.43
IP-RH System.Outlet H2O.t H2O	C	585	585	585	581	583	583	576	579	581	571	576	580	568	574	579
LP SH OUT.Outlet H2O.W H2O	kg/s	11.2	9.8	8.0	12.8	10.7	8.6	13.5	11.1	8.8	14.1	11.6	9.0	14.6	11.7	9.1
LP SH OUT.Outlet H2O.p H2O	bar(a)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.96	5.00	5.00	5.00	5.00
LP SH OUT.Outlet H2O.t H2O	C	276	275	272	276	275	272	275	274	272	274	273	272	273	273	272
Cold RH.Outlet H2O.W H2O	kg/s	82.0	75.4	65.6	87.8	78.1	68.1	87.3	78.3	68.5	87.3	78.4	68.8	87.3	78.4	68.9
Cold RH.Outlet H2O.p H2O	bar(a)	31.78	29.25	25.51	33.95	30.29	26.46	33.77	30.38	26.64	33.79	30.41	26.75	33.80	30.43	26.80
Cold RH.Outlet H2O.t H2O	C	364	365	368	365	364	366	365	364	365	365	364	365	365	364	365
GT(Database).Flue gas out.W gas	kg/s	605.5	555.4	483.2	663.8	584.6	504.5	679.9	598.8	513.8	697.3	609.4	520.0	709.8	616.0	523.1
GT(Database).Flue gas out.V_med	mm ³ /h	1719167	1574095	1368385	1882826	1657399	1428902	1928636	1697532	1455353	1977847	1727522	1473309	2013151	1746499	1482135
GT(Database).Flue gas out.t medium	C	651	653	651	643	647	649	632	639	644	623	632	641	617	628	639

Parameters
 Clipboard

Easy export with clipboard to excel

Automatically calculation of RH back pressure

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Name	Unit	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]	[(+)]
2	GT(Database).Initial data.tRef	C	25	25	25	15	15	15	5	5	5	-5	-5	-5	-15	-15	-15
3	GT(Database).Initial data.Ngt_rel	%	100	80	60	100	80	60	100	80	60	100	80	60	100	80	60
4	HP System.Outlet H2O.W H2O	kg/s	83	76.3	66.4	88.8	79	68.9	88.3	79.2	69.3	88.3	79.3	69.6	88.3	79.4	69.7
5	HP System.Outlet H2O.p H2O	bar(a)	122.41	112.81	98.72	130.66	116.76	102.2	129.96	117.08	102.88	130	117.2	103.28	130	117.24	103.46
6	HP System.Outlet H2O.t H2O	C	568	568	570	568	568	568	568	568	568	568	568	568	568	568	568
7	IP-RH System.Outlet H2O.W H2O	kg/s	90	82.8	72.2	96.4	85.9	74.9	96.2	86.3	75.5	96.5	86.6	75.9	96.7	86.7	76
8	IP-RH System.Outlet H2O.p H2O	bar(a)	31.35	28.85	25.16	33.49	29.88	26.09	33.31	29.97	26.27	33.33	30	26.38	33.34	30.02	26.43
9	IP-RH System.Outlet H2O.t H2O	C	585	585	585	581	583	583	576	579	581	571	576	580	568	574	579
10	LP SH OUT.Outlet H2O.W H2O	kg/s	11.2	9.8	8	12.8	10.7	8.6	13.5	11.1	8.8	14.1	11.6	9	14.6	11.7	9.1
11	LP SH OUT.Outlet H2O.p H2O	bar(a)	5	5	5	5	5	5	5	5	5	5	4.96	5	5	5	5
12	LP SH OUT.Outlet H2O.t H2O	C	276	275	272	276	275	272	275	274	272	274	273	272	273	273	272
13	Cold RH.Outlet H2O.W H2O	kg/s	82	75.4	65.6	87.8	78.1	68.1	87.3	78.3	68.5	87.3	78.4	68.8	87.3	78.4	68.9
14	Cold RH.Outlet H2O.p H2O	bar(a)	31.78	29.25	25.51	33.95	30.29	26.46	33.77	30.38	26.64	33.79	30.41	26.75	33.8	30.43	26.8
15	Cold RH.Outlet H2O.t H2O	C	364	365	368	365	364	366	365	364	365	365	364	365	365	364	365
16	GT(Database).Flue gas out.W gas	kg/s	605.5	555.4	483.2	663.8	584.6	504.5	679.9	598.8	513.8	697.3	609.4	520	709.8	616	523.1
17	GT(Database).Flue gas out.V_med	nm^3/h	1719167	1574095	1368385	1882826	1657399	1428902	1928636	1697532	1455353	1977847	1727522	1473309	2013151	1746499	1482135
18	GT(Database).Flue gas out.t medium	C	651	653	651	643	647	649	632	639	644	623	632	641	617	628	639

Model in PSD

