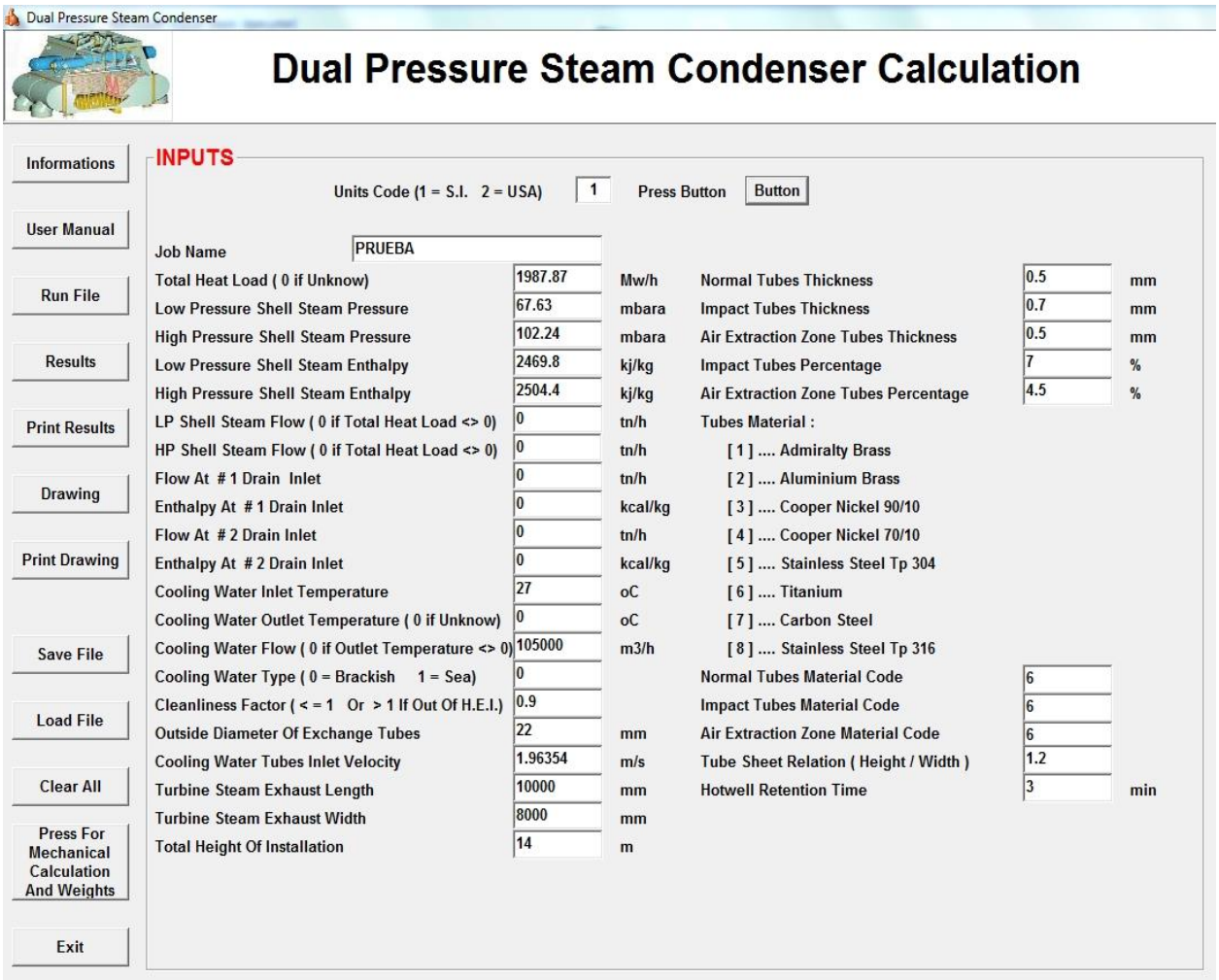
Dual Pressure Condenser

Two calculation types are possible, one depending of the total heat load, another based on steam flow for each shell, in both cases calculations are based on fixed cooling water flow or inlet and outlet cooling water temperatures.
The final results give a dual condenser with two identical shells in terms of same surfaces, number and length of tubes.
Details of the connection between hotwels and turbine necks are give.

PROGRAM WINDOWS



DATA ENTRY WINDOW

RESULTS

Dual Pressure Steam Condenser - Data Results

Job Name : PRUEBA

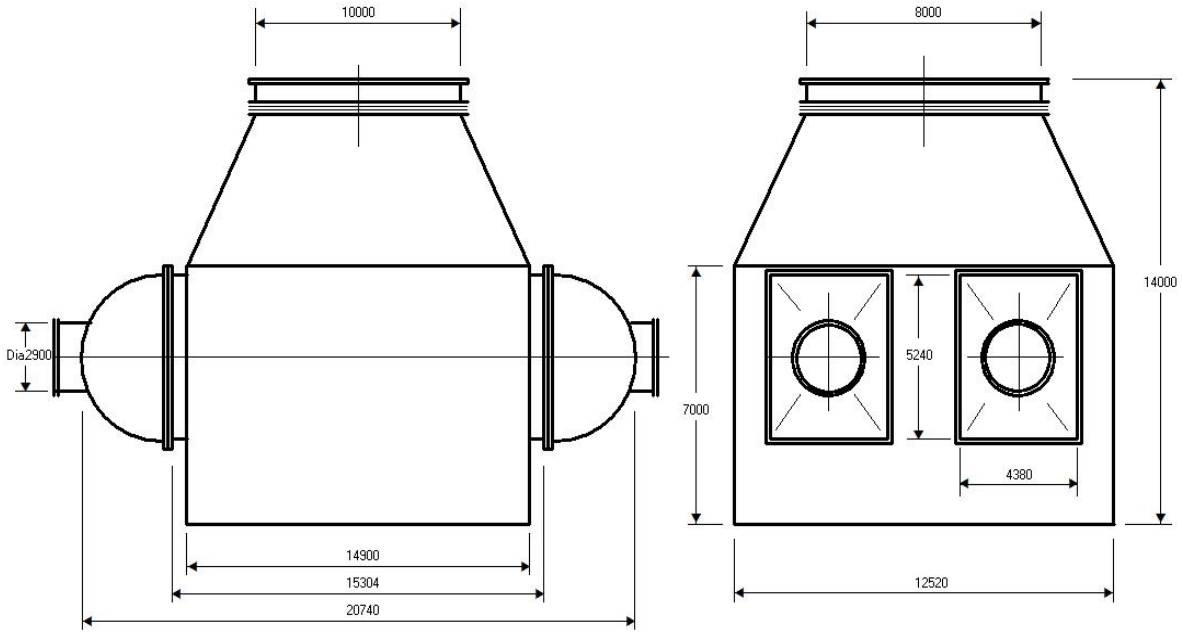
Data

Total Heat Load (Including 0.2% Lost)	1991,84	Mw/h
Low Pressure Shell Steam Pressure	67,63	mbara
High Pressure Shell Steam Pressure	102,24	mbara
Low Pressure Shell Steam Enthalpy	2469,8	Kj/Kg
High Pressure Shell Steam Enthalpy	2504,4	Kj/Kg
Low Pressure Shell Steam Flow	0	Tn/h
High Pressure Shell Steam Flow	0	Tn/h
Flow At # 1 Drain Inlet	0	Tn/h
Enthalpy At # 1 Drain Inlet	0	Kj/Kg
Flow At # 2 Drain Inlet	0	Tn/h
Enthalpy At # 2 Drain Inlet	0	Kj/Kg
Cooling Water Inlet Temperature	27	oC
Cooling Water Outlet Temperature	43,31	oC
Cooling Water Flow	105000	m3/h
Cooling Water Type	Brackish Water	
Cleanliness Factor	0,9	
Outside Diameter Of Exchange Tubes	22	mm
Cooling Water Tubes Inlet Velocity	1,96354	m/s
Normal Tubes Thickness	0,5	mm
Impact Tubes Thickness	0,7	mm
Air Extraction Zone Tubes Thickness	0,5	mm
Normal Tubes Material	Titanium	
Impact Tubes Material	Titanium	
Air Extraction Zone Tubes Material	Titanium	
Impact Tubes Percentage	7	%
Air Extraction Zone Tubes Percentage	4,5	%
Hotwell Retention Time	3	min

Results

LP Shell Condensation Temperature	38,38	oC
HP Shell Condensation Temperature	46,26	oC
LP Shell Corrected Steam Flow	1557,66	Tn/h
HP Shell Corrected Steam Flow	1568,9	Tn/h
LP Cooling Water Outlet Temperature	35,18	oC
HP Cooling Water Outlet Temperature	43,31	oC
Low Pressure Shell Heat Load	999,1	Mw/h
High Pressure Shell Heat Load	992,73	Mw/h
Low Pressure Shell L.M.T.D.	6,44	oC
High Pressure Shell L.M.T.D.	6,14	oC
LP Shell Exchange Coefficient	12258	Kj/hoCm2
HP Shell Exchange Coefficient	12776	Kj/hoCm2
LP Shell Exchange Surface	45488	m2
HP Shell Exchange Surface	45488	m2
Total Number Of Tubes	86001	
Tubes Length Between Tube Sheets	15,305	m
Total Cooling Water Pressure Drop	7,43	mcw
Tube Sheet Height	5240	mm
Tube Sheet Width	4380	mm
Shell Total Width	12,52	m
Tube Sheet Drilling Coefficient	0,387	
Number Of Tubes Support Plates	19	
Turbine Steam Exhaust Length	10000	mm
Turbine Steam Exhaust Width	8000	mm
Total Height Of Installation	14	m
Shell Total Height	7000	m
Diameter Of Cooling Water Nozzles	2900	mm
Height Of Normal Level In Hotwell	520	mm
Condenser Total Length	20,74	m

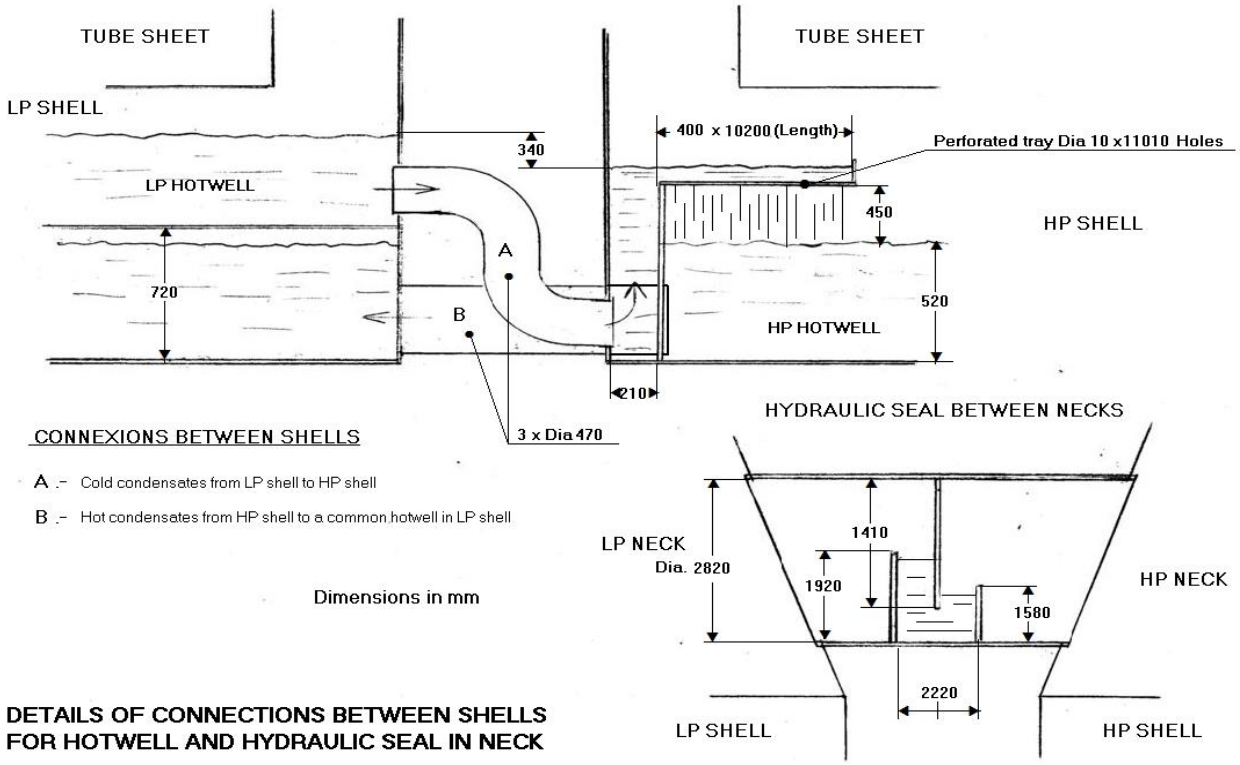
DRAWING



Dimension in mm

Number of Shells 2

DETAILS OF INTERNALS



DETAILS OF CONNECTIONS BETWEEN SHELLS FOR HOTWELL AND HYDRAULIC SEAL IN NECK

Steam Condenser Shell And Water Box Thickness

Condenser HEI Shell And Water Box Thickness (Chap.8.2.3 and 5)

Run File

Results

Print Results

Save File

Load File

Clear All

Press For Weights

Exit

INPUTS

Job Name	TESTTICK1	
Shell Side Design Pressure	15	psig
Horizontal Length Between Two Support Points	40	in
Vertical Length Between Two Support Points	60	in
Shell Allowable Load (If 0, 20000 For A515Gr70)	0	psi
Support Tubes Allowable Load (If 0, 35000 For A106)	0	psi
Supports Young's Modulus (If 0, 29.3x10^6 For A106)	0	psi
In Hotwell Support Tubes Outlet Diameter	3	in
In Hotwell Support Tubes Thickness	0.2	in
Height Of Support Tubes In Hotwell	3	ft
Tube Side Design Pressure	60	psig
Discontinuity Factor According To Geometry (< = 1)	1	
Radius Of Water Box	86	in
Water Box Allowable Load (If 0, 20000 For A515Gr70)	0	psi
Welding Eficiency Factor (If 0, HEI Factor = 0.75)	0	
Dimension Between Reinforcements In Plane Plates	35	in

SHELL AND WATER BOX THICKNESS CALCULATION

Condenser Shell And Water Box Thickness - Data And Results

Job Name : TESTTICK1

Data Inputs

Shell Side Design Pressure	15	psig
Horizontal Length Between Two Support Points	40	in
Vertical Length Between Two Support Points	60	in
Shell Allowable Load (If 0, 20000 For A515Gr70)	20000	psi
Support Tubes Allowable Load (If 0, 35000 For A106)	35000	psi
Supports Young's Modulus (If 0, 29.3x10^6 For A106)	29300	Kpsi
In Hotwell Support Tubes Outlet Diameter	3	in
In Hotwell Support Tubes Thickness	0,2	in
Height Of Support Tubes In Hotwell	3	ft
Tube Side Design Pressure	60	psig
Discontinuity Factor According To Geometry (< = 1)	1	
Radius Of Water Box	86	in
Water Box Allowable Load (If 0, 20000 For A515Gr70)	20000	psi
Welding Eficiency Factor (If 0, HEI Factor = 0.75)	0,75	
Dimension Between Reinforcements In Plane Plates	35	in

Results

Shell Thickness Without Corrosion	0,8	in
Tube Diameter Or Clips Width In Support Points	4,89	in
Shell Thickness With Ribs And Without Corrosion	0,63	in
Allowable Loads In Hotwell Support Tubes	36858	lb
Semi-Cylindrical Water Box Thickness Without Corosion	0,34	in
Plane Plates Thickness Without Corrosion	1,1	in

SHELL AND WATER BOX THICKNESS RESULTS

WEIGHTS OF MAIN PARTS

Steam Condenser Tubes And Tube Sheets Weight

Condenser Tubes And Tube Sheets Weight

INPUTS

Job Name: TEST DOWN

Run File

Results

Print Results

Save File

Load File

Press For Shell Weight

Exit

Tubes Diameter	22	mm
Normal Tubes Thickness	0.5	mm
Impact Tubes Thickness	0.7	mm
Air Extraction Tubes Thickness	0.5	mm
Percentage Of Impact Tubes	7	%
Percentage Of Air Extraction Tubes	4.5	%
Length Of Tubes	15.385	m
Total Number Of Tubes	86001	
Density Of Normal Tubes Material	4.55	kg/dm3
Density Of Impact Tubes Material	4.55	kg/dm3
Density Of Air Extraction Tubes Material	4.55	kg/dm3
Height Of Tube Sheet	5.4	m
Width Of Tube Sheet	4.54	m
Tube Sheet Thickness	40	mm
Thickness Of Cladding	5	mm
Density Of Tubes Sheet Material	7.9	kg/dm3
Density Of Cladding Material	4.55	kg/dm3
Total Number Of Tubes Sheets	8	
Water Box Bolts Diameter	25	mm
Number Of Bolts Per Tube Sheet	130	

Steam Condenser Tubes And Tube Sheets Weight - Data And Results

Job Name : TEST DOWN

■ Data Inputs

Tubes Diameter	22	mm
Normal Tubes Thickness	0,5	mm
Impact Tubes Thickness	0,7	mm
Air ExtractionTubes Thickness	0,5	mm
Percentage Of Impact Tubes	7	%
Percentage Of Air Extraction	4,5	%
Length Of Tubes	15,385	m
Total Number Of Tubes	86001	
Density Of Normal Tubes Material	4,55	kg/dm3
Density Of Impact Tubes Material	4,55	kg/dm3
Density Of Air ExtractionTubes Material	4,55	kg/dm3
Height Of Tube Sheet	5,4	m
Width Of Tube Sheet	4,54	m
Tube Sheet Thickness	40	mm
Thickness Of Cladding	5	mm
Density Of Tube Sheet Material	7,9	kg/dm3
Density Of Cladding Material	4,55	kg/dm3
Total Number Of Tube Sheets	8	
Water Box Bolts Diameter	25	mm
Number Of Bolts Per Tube Sheet	130	

■ Results

Weight Of Normal Tubes	179934	kg
Weight Of Impact Tubes	19739	kg
Weight Of Air Extraction Tubes	9149	kg
Gross Weight Of One Tube Sheet	7336	kg
Gross Weight Of All Tube Sheets	58691	kg
Gross Weight Of One Tube Sheet After Machining	4784	kg
Gross Weight Of All Tube Sheets After Machining	38278	kg

One Shell Weight

One Shell With Two Tube Bundles - Shell Weight

Run File

Results

Print Results

Save File

Load File

Press For Water Boxes Weight

Exit

INPUTS

Job Name: TEST DOWN

Length Between Tube Sheets	15.305	m	Aircooling Casing Thickness	3	mm
Shell Length	14.9	m	Diameter Of Aircooling Main Pipe	200	mm
Shell Width	12.52	m	Thickness Of Aircooling Main Pipe	6	mm
Shell Heigh	5.6	m	Number Of Vertical Aircooling Pipes	4	
Shell Wall Thickness	20	mm	Diameter Of Vertical Aircooling Pipes	100	mm
Tube Sheet Height	5.4	m	Thickness Of Vertical Aircooling Pipes	4	mm
Tube Sheet Width	4.54	m	Dimension Of Tube Sheet Face Flange	100	mm
Number Of Tube Support Plates Per Bundle	19		Number Of Holes In Tube Sheet Flange	130	
Thickness Of Tube Support Plates	10	mm	Holes Diameter In Tube Sheet Flange	25	mm
Reinforcing Pipe Diam. In Tube Support Plates	80	mm	Number Of Tubes Per Tube Bundle	21500	
Reinforcing Pipe Thick. In Tube Support Plates	5	mm	Diameter Of Tubes	22	mm
Tube Sheet Flange Thickness	50	mm	Number Of Tubes In Aircooling Per Bundle	960	
Tubes Protection Grill Tube Diameter	25	mm	Turbine Neck Connection Thickness Plate	20	mm
Tubes Protection Grill Tube Thickness	2	mm	Turbine Neck Connection Width Plate	40	mm

One Shell With Two Tube Bundles - Shell Weight - Data And Results

Job Name : **TEST DOWN**

■ Data Inputs

Length Between Tube Sheets	15,305	m
Shell Length	14,9	m
Shell Width	12,52	m
Shell Height	5,6	m
Shell Wall Thickness	20	mm
Tube Sheet Height	5,4	m
Tube Sheet Width	4,54	m
Number Of Tube Support Plates Per Bundle	19	
Thickness Of Tube Support Plates	10	mm
Reinforcing Pipe Diam. At Tube Support Plates	80	mm
Reinforcing Pipe Thick. At Tube Support Plates	5	mm
Tube Sheet Flange Thickness	50	mm
Tube Diameter For Tube Protection Grill	25	mm
Tube Thickness For Tube Protection Grill	2	mm
Aircooling Casing Thickness	3	mm
Diameter Of Aircooling Main Pipe	200	mm
Thickness Of Aircooling Main Pipe	6	mm
Number Of Vertical Aircooling Pipes	4	
Diameter Of Vertical Aircooling Pipes	100	mm
Thickness Of Vertical Aircooling Pipes	4	mm
Dimension Of Tube Sheet Face Flange	100	mm
Number Of Holes In Tube Sheet Flange	130	
Holes Diameter In Tube Sheet Flange	25	mm
Number Of Tubes Per Tube Bundle	21500	
Diameter Of Exchange Tubes	22	mm
Number Of Tubes In Aircooling Per Bundle	960	
Turbine Neck Connection Thickness Plate	20	mm
Turbine Neck Connection Width Plate	40	mm

■ Results

Weight Of Wall Plates	34693	kg
Weight Of Necks Between Tube Sheet And Shell	4945	kg
Weight Of Shell Expansion Joint (If Needed)	345	kg
Weight Of Flanges For Tube Sheets Connection	3014	kg
Weight Of Tube Support Plates After Drilling	52735	kg
Weight Of Tube Support Plates Reinforcement Pipes	3438	kg
Weight Of Reinforcement Plates And Profiles	3378	kg
Weight Of Tube Protection Grill	4999	kg
Weight Of Aircooling Casing	915	kg
Weight Of Aircooling Extraction Pipes	1025	kg
Weight Of Plate Between Neck And Shell	350	kg
TOTAL WEIGHT OF ONE SHELL	109841	kg

Steam Condenser Water Box Weight

Steam Condenser Water Box Weight

(Semicylindrical Type, whitout considered interconexion)

Run File

Results

Print Results

Save File

Load File

Press For LP Hotwell Weight

Exit

INPUTS

Job Name	TEST DOWN	
Height Of Tube Sheet (Or Width If Axial Type)	5.24	m
Width Of Tube Sheet (Or Height If Axial Type)	4.38	m
Width Of The Flange Face	100	mm
Thickness Of Flange	60	mm
Diameter Of Water Box Bolts	25	mm
Number Of Bolts Per Water Box	130	
Thikness Of Main Plate	16	mm
Thickness Of Up And Down Water Box Covers	28	mm
Diameter Of Inlet/Outlet Cooling Water Pipes	2900	mm
Thickness Of Inlet/Outlet Cooling Water Pipes	12	mm
Thickness Of Inlet/Outlet Cooling Water Flange	40	mm

Steam Condenser Water Box Weight - Data And Results

Job Name : **TEST DOWN**

■ Data Inputs

Height Of Tube Sheet	5,24	m
Width Of Tube Sheet	4,38	m
Width Of The Flange Face	100	mm
Thickness OF Flange	60	mm
Diameter OF Water Box Bolts	25	mm
Number Of Bolts Per Water Box	130	
Thickness Of Main Plate	16	mm
Thickness Of Up And Down Water Box Covers	28	mm
Diameter Of Inlet/Outlet Cooling Water Pipes	2900	mm
Thickness Of Inlet/Outlet Cooling Water Pipes	12	mm
Thickness Of Inlet/Outlet Cooling Water Flange	40	mm

■ Results

Weight Of Tube Plate Flange	871	kg
Weight Of Tube Plate Bolts	183	kg
Weight Of Manhole	320	
Weight Of Cooling Water Connection	738	kg
Weight Of Main Plate And Up And Down Covers	7283	kg
Weight Of Miscellaneous	80	kg
TOTAL WEIGHT OF WATER BOX	9475	kg

LP Condenser Hotwell Weight

LP Condenser Hotwell Weight

(Whitout considered interconexion)

Run File

Results

Print Results

Save File

Load File

Press For HP Hotwell Weight

Exit

INPUTS

Job Name	TEST DOWN	
Length Of Hotwell	14.9	m
Width Of Hotwell	12.52	m
Height Of Hotwell	1.4	m
Thickness Of Wall Plate	20	mm
Thickness Of Down Plate	25	mm
Number Of Tube Support Plates Per Bundle	19	
Diameter Of Tube Support Plate Reinforcement Pipe	80	mm
Thickness Of Tube Support Plate Reinforcement Pipe	5	mm
Thickness Of Bundles Separation Vertical Plate	18	mm
Diameter Of Wall Plate Reinforcement Pipe	80	mm
Thickness Of Wall Plate Reinforcement Pipe	5	mm
Thickness Of Civil Works Foot Support Plates	20	mm
Length Of Dearating System	0	m
Thickness Of Shell Connection Plate	20	mm
Width Of Shell Connection Plate	40	mm
Thickness Of Plate Between Hot And Cold Condensates	16	mm

LP Condenser Hotwell Weight - Data And Results

Job Name : **TEST DOWN**

■ Data Inputs

Length Of Hotwell	14,9	m
Width Of Hotwell	12,52	m
Height Of Hotwell	1,4	m
Thikness Of Wall Plate	20	mm
Thickness Of Down Plate	25	mm
Number Of Tube Support Plates Per Budle	19	
Diameter Of Tube Support Plate Reinforc. Pipe	80	mm
THickness Of Tube Support Plate Reinforc. Pipe	5	mm
Thickness Of Bundles Separation Plate	18	mm
Diameter Of Wall Plate Reinforcement Pipe	80	mm
Thickness Of Wall Plate Reinforcement Pipe	5	mm
Thickness OF Civil Works Foot Support Plates	20	mm
Length Of Deaerating System	0	m
Thickness Of Shell Connection Plate	20	mm
Width Of Shell Connection Plate	40	mm

■ Results

Weight Of Wall Plates And Manhole	12604	kg
Weight Of Down Hotwell Plate	37309	kg
Weight Of Tube Support Plates Reinforcement Pipes	1002	kg
Weight Of Wall Plate Reinforcement Pipes	461	kg
Weight Of Bundles Separation Plate	1410	kg
Weight Of Civil Works Foot Support Plates	480	kg
Weight Of Civil Works Plates And Fixed Point	752	kg
Weight Of Lifting Brackets	103	kg
Weight Of Sampling Plates	209	kg
Weight Of Condensate Outlet Casing	760	kg
Weight Of Miscellaneous	100	kg
Weight Of Internal Deaerating System	0	kg
Weight Of Plates For Connection To Shell	350	kg
Weight Of Plate Between Hot And Cold Condensates	23878	kg
TOTAL WEIGHT OF LP HOTWELL	79422	kg

HP Condenser Hotwell Weight

HP Condenser Hotwell Weight

(Whitout considered interconexion)

Run File

Results

Print Results

Save File

Load File

Press For Shell Neck Weight

Exit

INPUTS

Job Name	TEST DOWN	
Length Of Hotwell	14.9	m
Width Of Hotwell	12.52	m
Height Of Hotwell	1.4	m
Thickness Of Wall Plate	20	mm
Thickness Of Down Plate	25	mm
Number Of Tube Support Plates Per Bundle	19	
Diameter Of Tube Support Plate Reinforcement Pipe	80	mm
Thickness Of Tube Support Plate Reinforcement Pipe	5	mm
Thickness Of Bundles Separation Plate	18	mm
Diameter Of Wall Plate Reinforcement Pipe	80	mm
Thickness Of Wall Plate Reinforcement Pipe	5	mm
Thickness Of Civil Works Foot Support Plates	20	mm
Length Of Dearating System	0	m
Thickness Of Shell Connection Plate	20	mm
Width Of Shell Connection Plate	40	mm
Thickness Of Plate For Deaerating Casing System	10	mm

HP Condenser Hotwell Weight - Data And Results

Job Name : **TEST DOWN**

■ Data Inputs

Length Of Hotwell	14,9	m
Width Of Hotwell	12,52	m
Height Of Hotwell	1,4	m
Thikness Of Wall Plate	20	mm
Thickness Of Down Plate	25	mm
Number Of Tube Support Plates Per Budle	19	
Diameter Of Tube Support Plate Reinforc. Pipe	80	mm
THickness Of Tube Support Plate Reinforc. Pipe	5	mm
Thickness Of Bundles Separation Plate	18	mm
Diameter Of Wall Plate Reinforcement Pipe	80	mm
Thickness Of Wall Plate Reinforcement Pipe	5	mm
Thickness OF Civil Works Foot Support Plates	20	mm
Length Of Deaerating System	0	m
Thickness Of Shell Connection Plate	20	mm
Width Of Shell Connection Plate	40	mm

■ Results

Weight Of Wall Plates And Manhole	12604	kg
Weight Of Down Hotwell Plate	37309	kg
Weight Of Tube Support Plates Reinforcement Pipes	1002	kg
Weight Of Wall Plate Reinforcement Pipes	461	kg
Weight Of Bundles Separation Plate	1293	kg
Weight Of Civil Works Foot Support Plates	480	kg
Weight Of Civil Works Plates And Fixed Point	752	kg
Weight Of Lifting Brackets	103	kg
Weight Of Sampling Plates	209	kg
Weight Of Condensate Outlet Casing	760	kg
Weight Of Miscellaneous	100	kg
Weight Of Internal Deaerating System	0	kg
Weight Of Plates For Connection To Shell	350	kg
Weight Of Plate For Deaerating Casing System	1117	kg
TOTAL WEIGHT OF HP HOTWELL	56545	kg

One Condenser Shell Neck Weight

One Condenser Shell Neck Weight

Run File

Results

Print Results

Save File

Load File

Press For Turbine Neck Weight

Exit

INPUTS

Job Name	TEST DOWN	
Top Length Of Shell Neck	10	m
Lower Length Of Shell Neck	14.9	m
Top Width Of Shell Neck	8	m
Lower Width Of Shell Neck	12.52	m
Height Of Shell Neck	7	m
Thickness Of Wall Plates	20	mm
Diameter Of Internal Reinforcement Pipes	80	mm
Thickness Of Internal Reinforcement Pipes	5	mm
Thickness Of Plate For Connection To Turbine Neck	20	mm
Width Of Plate For Connection To Turbine Neck	40	mm
Diameter Of Sprays Make-Up Pipes	50	mm
Thickness Of Sprays Make-Up Pipes	3	mm

One Condenser Shell Neck Weight - Data And Results

Job Name : TEST DOWN

■ Data Inputs

Top Length Of Shell Neck	10	m
Lower Length Of Shell Neck	14,9	m
Top Width Of Shell Neck	8	m
Lower Width Of Shell Neck	12,52	m
Height Of Shell Neck	7	m
Thickness Of Wall Plate	20	mm
Diameter Of Internal Reinforcement Pipes	80	mm
Thickness Of Internal Reinforcement Pipes	5	mm
Thickness Of Plate For Connexion To Turbine	20	mm
Width Of Plate For Connexion To Turbine	40	mm
Diameter Of Sprays Make-Up Pipes	50	mm
Thickness Of Sprays Make-Up Pipes	3	mm

■ Results

Weight Of Wall Plates, Manhole And Connexions	51390	kg
Weight Of Plate For Connexion To Turbine Neck	230	kg
Weight Of Internal Reinforcement Pipes	5792	kg
Weight Of Profiles " I " 200 mm Height	1567	kg
Weight Of Sparys Make-Up System	141	kg
TOTAL WEIGHT OF SHELL NECK	59120	kg

One Condenser Turbine Neck Weight

One Condenser Turbine Neck Weight

Run File

Results

Print Results

Save File

Load File

Press For Interconexions Weight

Exit

INPUTS

Job Name	TEST DOWN	
Length Of Turbine Neck	10	m
Width Of Turbine Neck	8	m
Height Of Turbine Neck	1	m
Thickness Of Wall Plates	20	mm
Diameter Of Internal Reinforcement Pipes	80	mm
Thickness Of Internal Reinforcement Pipes	5	mm
Thickness Of Plate For Connection To Turbine	20	mm
Width Of Plate For Connection To Turbine	40	mm
Thickness Of Plate In S.S. For Expansion Joint	3	mm
Thickness Of Plate In S.S. For Expansion Joint Protection	3	mm
Diameter Of Bolts For Expansion Joint Protection	20	mm

One Condenser Turbine Neck Weight - Data And Results

Job Name : TEST DOWN

■ Data Inputs

Length Of Turbine Neck	10	m
Width Of Turbine Neck	8	m
Height Of Turbine Neck	1	m
Thickness Of Wall Plate	20	mm
Diameter Of Internal Reinforcement Pipes	80	mm
Thickness Of Internal Reinforcement Pipes	5	mm
Thickness Of Plate For Connexion To Turbine	20	mm
Width Of Plate For Connexion To Turbine	40	mm
Thickness Of Plate In S.S. For Expansion Joint	3	mm
Thick.Of Plate In S.S. For Expan. Joint Protection	3	mm
Diameter Of Bolts For Expansion Joint Protection	20	mm

■ Results

Weight Of Wall Plates, Manhole And Connexions	5184	kg
Weight Of Expansion Joint And Internal Protection	433	kg
Weight Of Turbine Connection Plate	230	kg
Weight Of Internal Reinforcement Pipes	1007	kg
Weight Of Bolts System	386	kg
TOTAL WEIGHT OF TURBINE NECK	7242	kg

Interconexions Of Hotwells And Necks

Interconexions Of Hotwells And Necks Weights

Run File

Results

Print Results

Save File

Load File

Exit

INPUTS

Job Name: PRUEBA

Thickness Of Diameter Of Hydraulic Seal Between Necks: 16 mm

Thickness Of Hydraulic Seal Plates Between Necks: 10 mm

Thickness Of Pipes Between Hotwells: 8 mm

FOR FINAL WEIGHTS

Press For Condenser Final Total Weights

Press For Print Final Total Weights

Interconexion Of Hotwells And Necks Weight - Data And Results

Job Name : **PRUEBA**

■ Data Inputs

Thickness Of Diameter Of Seal Betwen Necks	16	mm
Thickness Of Seal Plates Between Necks	10	mm
Thickness Of Pipes Between Hotwells	8	mm

■ Results

Weight Of Diameter Of Hydraulic Seal Between Necks	4690	kg
Weight Of Hydraulic Seal Plates Between Necks	900	kg
Weight Of Pipes Between Hotwells	1280	kg
TOTAL WEIGHT OF INTERCONEXIONS	6870	kg