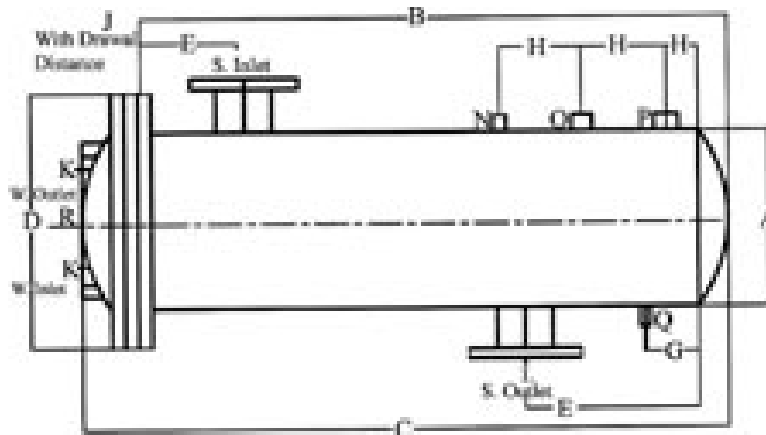


Instantaneous Heat Exchanger Type EX 0.05:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.05	50000	240	850	1200	390	250	75	50	100	750	13	13	20

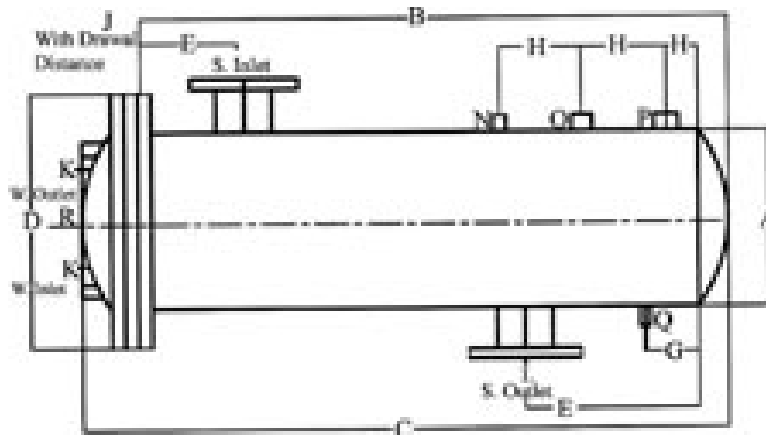
Technical Specification:

Type	: EX 0.05.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 20, PN 16. : Water Outlet : DN 20, PN 16. : Domestic Water : DN 20, PN 16. : Cold Water Inlet : DN 20, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	2500	2500	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
LMTD	50 000		K.cal/ hr
LMTD Correction Factor	55		°C
Shell Side Film Coef.	1.00		-----
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	3010		K.cal/rm ² .C
Total Fouling –Actual	0.000996		hr.m2.C/k.cal
Overall “U” Valve	0.00135		hr.m2.C/k.cal
Surface Area- Required	1004		K.cal/hr. m ² .C
	0.9		m ²

Instantaneous Heat Exchanger Type EX 0.10:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.10	100000	240	850	1200	390	250	75	50	100	750	13	20	40

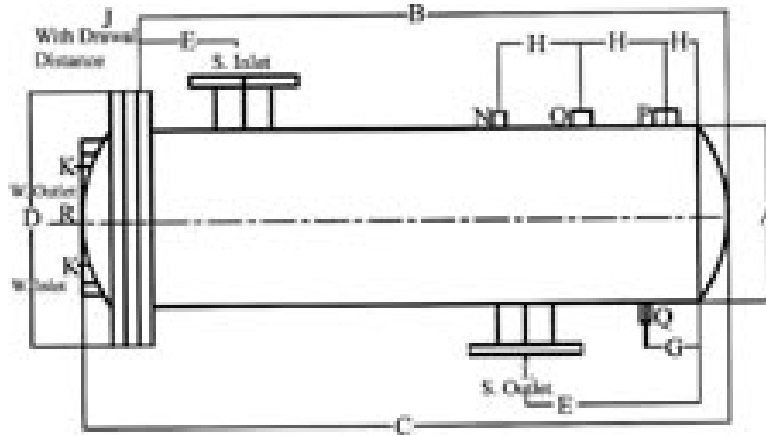
Technical Specification:

Type	: EX 0.10.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 40, PN 16. : Water Outlet : DN 40, PN 16. : Domestic Water : DN 40, PN 16. : Cold Water Inlet : DN 40, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	5000	5000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
LMTD	100 000		K.cal/ hr
LMTD Correction Factor	55		°C
Shell Side Film Coef.	1.00		-----
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	3010		K.cal/rm ² .C
Total Fouling –Actual	0.000996		hr.m ² .C/k.cal
Overall “U” Valve	0.00135		hr.m ² .C/k.cal
Surface Area- Required	1004		K.cal/hr. m ² .C
	1.8		m ²

Instantaneous Heat Exchanger Type EX 0.15:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.15	150000	240	1200	1500	390	250	75	65	125	1000	13	20	40

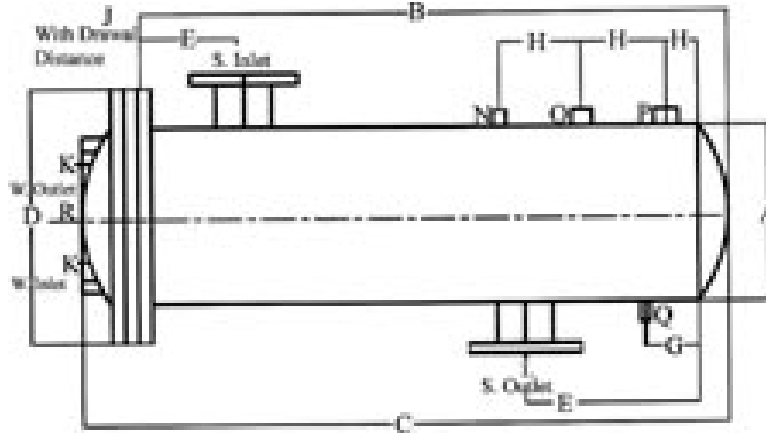
Technical Specification:

Type	: EX 0.15.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 40, PN 16. : Water Outlet : DN 40, PN 16. : Domestic Water : DN 40, PN 16. : Cold Water Inlet : DN 40, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	7500	7500	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
LMTD	150 000		K.cal/ hr
LMTD Correction Factor	55		°C
Shell Side Film Coef.	1.00		-----
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	3010		K.cal/rm ² .C
Total Fouling –Actual	0.000996		hr.m ² .C/k.cal
Overall “U” Valve	0.00135		hr.m ² .C/k.cal
Surface Area- Required	1004		K.cal/hr. m ² .C
	2.7		m ²

Instantaneous Heat Exchanger Type EX 0.20:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.20	200000	240	1700	2000	390	300	75	65	150	1550	20	20	50

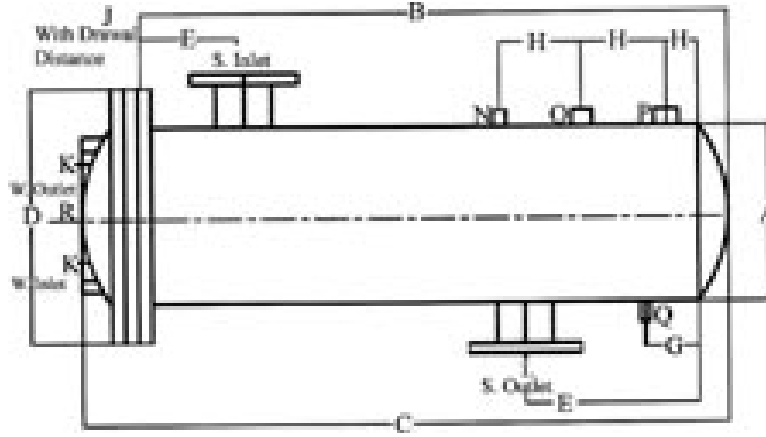
Technical Specification:

Type	: EX 0.20.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 50, PN 16. : Water Outlet : DN 50, PN 16. : Domestic Water : DN 50, PN 16. : Cold Water Inlet : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	10000	10000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	200 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m ² .C/k.cal
Total Fouling –Actual	0.00135		hr.m ² .C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	3.6		m ²

Instantaneous Heat Exchanger Type EX 0.30:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.30	300000	380	1100	1400	530	300	75	75	150	1000	20	20	50

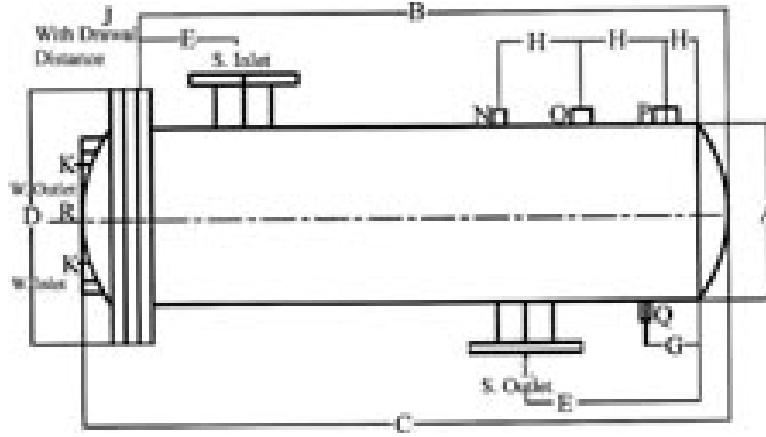
Technical Specification:

Type	: EX 0.30.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 50, PN 16. : Water Outlet : DN 50, PN 16. : Domestic Water : DN 50, PN 16. : Cold Water Inlet : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	15000	15000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	300 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m ² .C/k.cal
Total Fouling –Actual	0.00135		hr.m ² .C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	5.4		m ²

Instantaneous Heat Exchanger Type EX 0.40:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.40	400000	380	1100	1400	530	300	75	75	150	1000	25	25	75

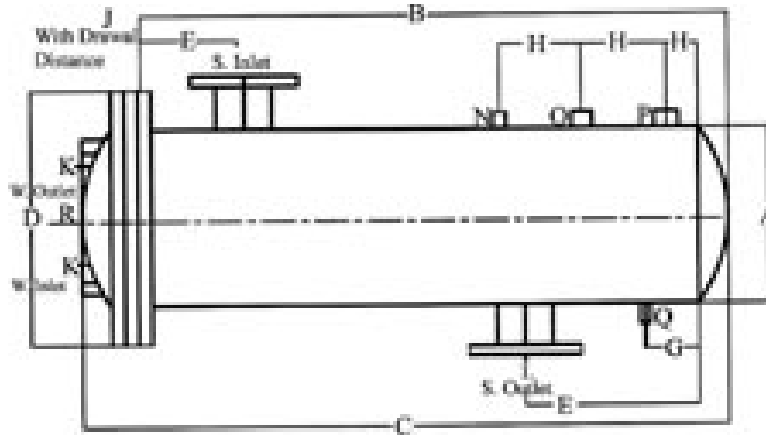
Technical Specification:

Type	: EX 0.40.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel ¾ inch.
Connections	: Water Inlet : DN 75, PN 16. : Water Outlet : DN 75, PN 16. : Domestic Water : DN 75, PN 16. : Cold Water Inlet : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	20000	20000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	400 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m ² .C/k.cal
Total Fouling –Actual	0.00135		hr.m ² .C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	7.2		m ²

Instantaneous Heat Exchanger Type EX 0.60:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.60	600000	380	2100	2400	530	300	75	75	200	1850	25	25	75

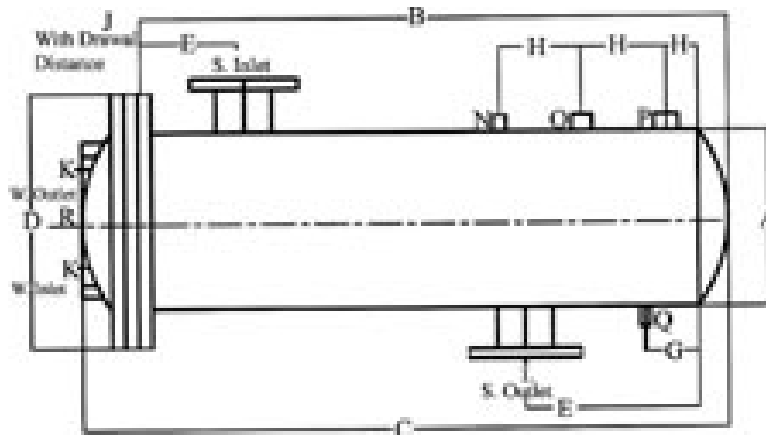
Technical Specification:

Type	: EX 0.60.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 75, PN 16. : Water Outlet : DN 75, PN 16. : Domestic Water : DN 75, PN 16. : Cold Water Inlet : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	30000	30000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
LMTD	600 000		K.cal/ hr
LMTD Correction Factor	55		°C
Shell Side Film Coef.	1.00		-----
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	3010		K.cal/rm ² .C
Total Fouling –Actual	0.000996		hr.m2.C/k.cal
Overall “U” Valve	0.00135		hr.m2.C/k.cal
Surface Area- Required	1004		K.cal/hr. m ² .C
	10.8		m ²

Instantaneous Heat Exchanger Type EX 0.75:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.75	750000	380	2600	2400	530	350	75	75	200	1850	25	40	75

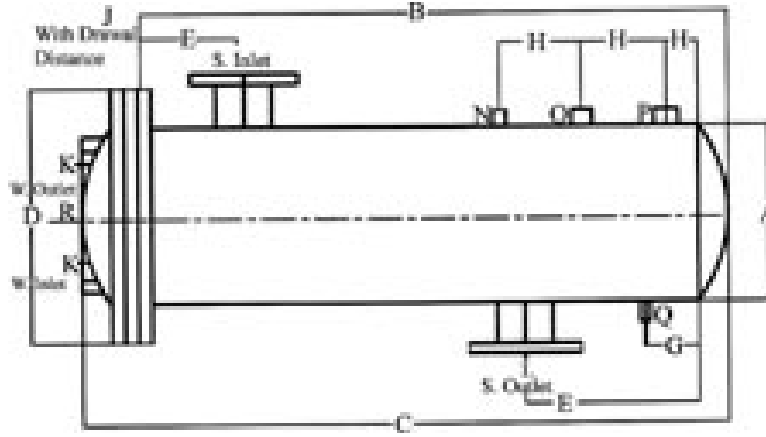
Technical Specification:

Type	: EX 0.75.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 75, PN 16. : Water Outlet : DN 75, PN 16. : Domestic Water : DN 75, PN 16. : Cold Water Inlet : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	37500	37500	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	750 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m2.C/k.cal
Total Fouling –Actual	0.00135		hr.m2.C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	13.5		m ²

Instantaneous Heat Exchanger Type EX 0.90:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
0.90	900000	380	3100	3400	530	350	75	75	200	2650	40	40	75

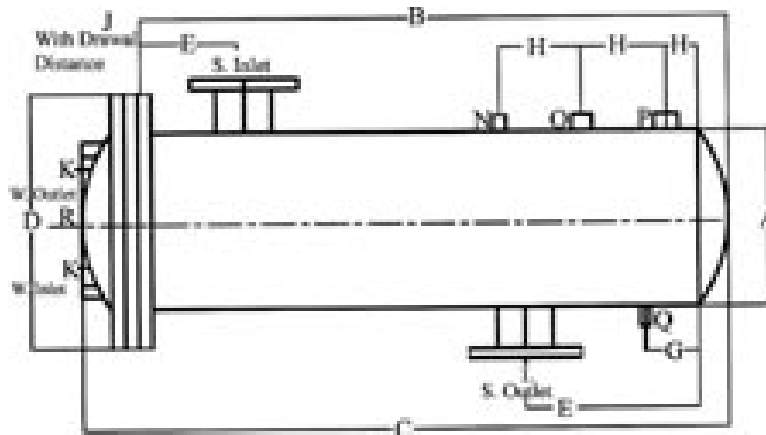
Technical Specification:

Type	: EX 0.90.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 75, PN 16. : Water Outlet : DN 75, PN 16. : Domestic Water : DN 75, PN 16. : Cold Water Inlet : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	45000	45000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	900 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m2.C/k.cal
Total Fouling –Actual	0.00135		hr.m2.C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	16.2		m ²

Instantaneous Heat Exchanger Type EX 1.00:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
1.00	1000000	380	3100	3400	530	350	75	75	200	2650	40	40	75

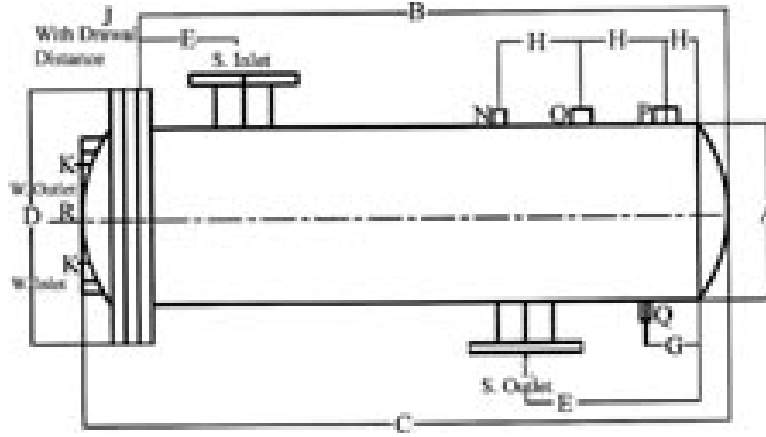
Technical Specification:

Type	: EX 1.00.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel ¾ inch.
Connections	: Water Inlet : DN 75, PN 16. : Water Outlet : DN 75, PN 16. : Domestic Water : DN 75, PN 16. : Cold Water Inlet : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	50000	50000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	1 000 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m ² .C/k.cal
Total Fouling –Actual	0.00135		hr.m ² .C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	18		m ²

Instantaneous Heat Exchanger Type EX 1.20:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
1.20	1200000	380	3100	3400	530	450	100	75	200	2900	50	50	100

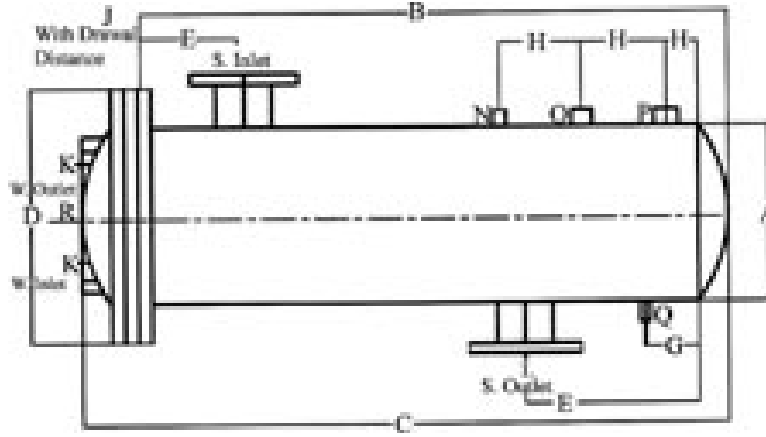
Technical Specification:

Type	: EX 1.20.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel ¾ inch.
Connections	: Water Inlet : DN 100, PN 16. : Water Outlet : DN 100, PN 16. : Domestic Water : DN 100, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side	Shell Side	
	Water	Water	
Fluid Cir.			
Total Flow	60000	60000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	1 200 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m ² .C/k.cal
Total Fouling –Actual	0.00135		hr.m ² .C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	21.6		m ²

Instantaneous Heat Exchanger Type EX 1.40:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
1.40	1400000	380	3100	3400	530	450	100	75	300	2900	50	50	100

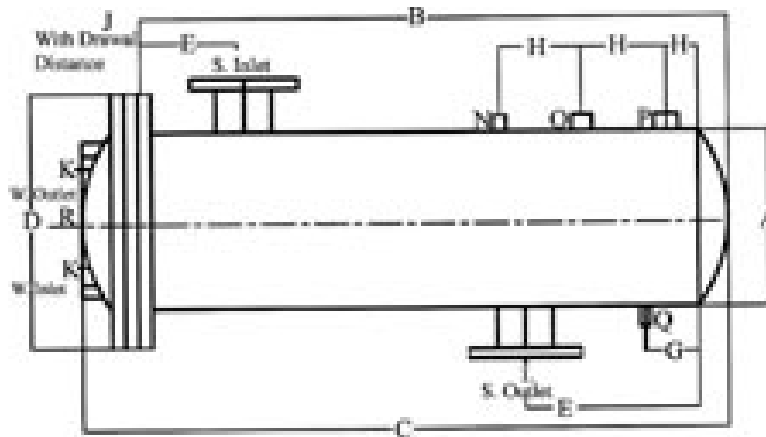
Technical Specification:

Type	: EX 1.40.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 100, PN 16. : Water Outlet : DN 100, PN 16. : Domestic Water : DN 100, PN 16. : Cold Water Inlet : DN 100, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side	Shell Side	
	Water	Water	
Fluid Cir.			
Total Flow	70000	70000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	1 400 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m2.C/k.cal
Total Fouling –Actual	0.00135		hr.m2.C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	25.2		m ²

Instantaneous Heat Exchanger Type EX 1.60:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
1.60	1600000	480	2600	2900	630	450	100	75	300	2250	50	50	100

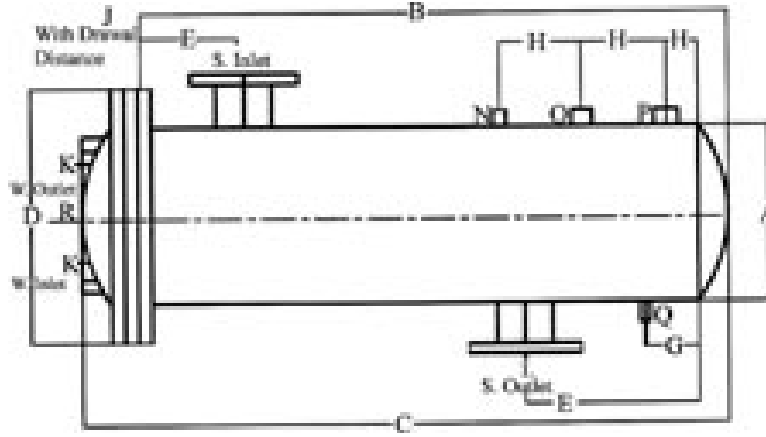
Technical Specification:

Type	: EX 1.60.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel 3/4 inch.
Connections	: Water Inlet : DN 100, PN 16. : Water Outlet : DN 100, PN 16. : Domestic Water : DN 100, PN 16. : Cold Water Inlet : DN 100, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	80000	80000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	1 600 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m ² .C/k.cal
Total Fouling –Actual	0.00135		hr.m ² .C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	28.8		m ²

Instantaneous Heat Exchanger Type EX 2.00:



Type EX	Capacity K.cal/hr	A	B	C	D	E	F	G	H	J	S.V	Drain	D.N
2.00	2000000	480	3100	3400	630	450	100	75	300	2950	50	50	125

Technical Specification:

Type	: EX 2.00.
Model	: U. tube, heat bundle, horizontal, Water to Water.
Working Press	: 4 bar.
Testing Press	: 6 bar.
Material	: Shell : Stainless steel (304/316) / Carbon steel : Tube sheet : Stainless steel (304/316) / Carbon steel : Baffles : Stainless steel (304/316) / Carbon steel : Coil : Stainless steel ¾ inch.
Connections	: Water Inlet : DN 125, PN 16. : Water Outlet : DN 125, PN 16. : Domestic Water : DN 125, PN 16. : Cold Water Inlet : DN 125, PN 16.
Insulation	: 50 mm of glass wool, density 24 Kg m ³ Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 95 cm.

Performance Data:

	Tube Side Water	Shell Side Water	
Fluid Cir.			
Total Flow	10000	10000	L/hr
Specific Gravity.	0.98	0.98	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.41	Centipoises
Thermal Conductivity	0.66	0.66	W/m.k.
Inlet Temperature.	15	90	° C
Outlet Temperature.	35	70	° C
Steam Pressure	-----	-----	-----
Velocity	2.0	2.0	m/sec.
Pressure Drop	0.2	0.2	bar
Heat Transfer Characteristic:			
	2 000 000		K.cal/ hr
LMTD	55		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	3010		K.cal/rm ² .C
Tube Side Film Coef.	3010		K.cal/rm ² .C
Total Fouling – Requested	0.000996		hr.m2.C/k.cal
Total Fouling –Actual	0.00135		hr.m2.C/k.cal
Overall “U” Valve	1004		K.cal/hr. m ² .C
Surface Area- Required	36		m ²