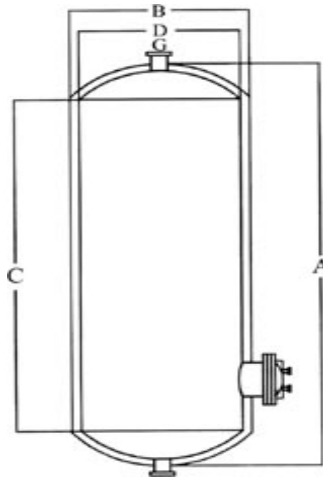


## Storage Heat Exchanger Type VEX 0.05



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.05	500	2000	750	1500	650	DN 25	DN 15

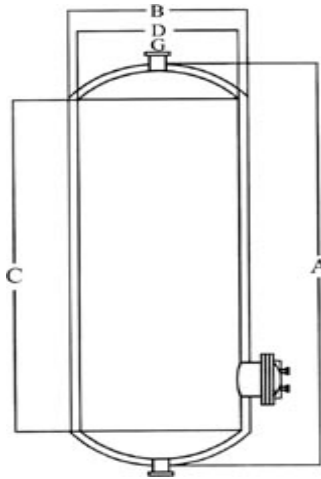
### Technical Specification:

<b>Type</b>	: VEX 0.05.
<b>Model</b>	: U. tube, heat bundle, vertical, Steam to Water.
<b>Working Press</b>	: 4 bar. (10 bar option)
<b>Testing Press</b>	: 6 bar. (16 bar option)
<b>Material</b>	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
<b>Storage Capacity</b>	: 500 Lt.
<b>Steam Consumption</b>	: 44.6 Kg/hr.
<b>Water Heating Up</b>	: 5-60° C.
<b>Connections</b>	: <b>Steam Inlet</b> : DN 20, PN 16. : <b>Condensate</b> : DN 13, PN 16. : <b>Domestic Water</b> : DN 25, PN 16. : <b>Cold Water Inlet</b> : DN 25, PN 16.
<b>Insulation</b>	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
<b>Gas Kets</b>	: Amient-lead sealing.
<b>Painting</b>	: Silver Enamel, anti corrosion, heat resistance coating.
<b>Platform</b>	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
<b>Fluid Cir.</b>			
<b>Total Flow</b>	2500	89	L/hr
<b>Specific Gravity.</b>	0.98	0.95	-----
<b>Specific Heat.</b>	4.18	4.18	K.J/Kg.C
<b>Viscosity</b>	0.41	0.23	Centipoises
<b>Thermal Conductivity</b>	0.66	0.661	W/m.k.
<b>Inlet Temperature.</b>	45	135	° C
<b>Outlet Temperature.</b>	65	135	° C
<b>Steam Pressure</b>	-----	2	-----
<b>Velocity</b>	2.0	-----	m/sec.
<b>Pressure Drop</b>	0.2	-----	bar
<b>Heat Transfer Characteristic:</b>			
	50 000		K.cal/ hr
<b>LMTD</b>	77		°C
<b>LMTD Correction Factor</b>	1.00		-----
<b>Shell Side Film Coef.</b>	4860		K.cal/rm <sup>2</sup> .C
<b>Tube Side Film Coef.</b>	4860		K.cal/rm <sup>2</sup> .C
<b>Total Fouling – Requested</b>	0.000205		hr.m <sup>2</sup> .C/k.cal
<b>Total Fouling –Actual</b>	0.00335		hr.m <sup>2</sup> .C/k.cal
<b>Overall “U” Valve</b>	1626		K.cal/hr. m <sup>2</sup> .C
<b>Surface Area- Required</b>	0.4		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.10



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.10	1000	2000	1050	1500	950	DN 25	DN 15

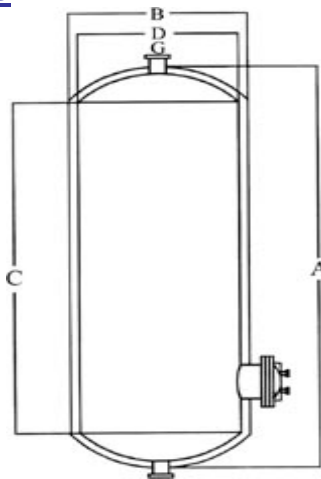
### Technical Specification:

Type	: VEX 0.10.	
Model	: U. tube, heat bundle, vertical, Steam to Water.	
Working Press	: 4 bar. (10 bar option)	
Testing Press	: 6 bar. (16 bar option)	
Material	: Shell	: Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: Tube sheet	: Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: Baffles	: Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: Coil	: Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 1000 Lt.	
Steam Consumption	: 89.2 Kg/hr.	
Water Heating Up	: 5-60° C.	
Connections	: Steam Inlet	: DN 20, PN 16.
	: Condensate	: DN 13, PN 16.
	: Domestic Water	: DN 25, PN 16.
	: Cold Water Inlet	: DN 25, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).	
Gas Kets	: Amient-lead sealing.	
Painting	: Silver Enamel, anti corrosion, heat resistance coating.	
Platform	: Channel section, height: 35 cm.	

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
Fluid Cir.	Water	Steam	
Total Flow	2500	89	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	50 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	0.63		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.15



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.15	1500	2500	1050	2000	950	DN 25	DN 20

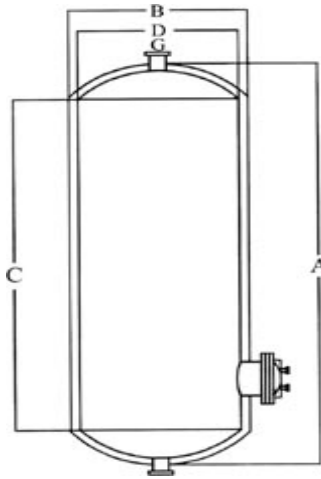
### Technical Specification:

Type	: VEX 0.15.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 1500 Lt.
Steam Consumption	: 133.8 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 20, PN 16. : <b>Condensate</b> : DN 20, PN 16. : <b>Domestic Water</b> : DN 25, PN 16. : <b>Cold Water Inlet</b> : DN 25, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	2500	89	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	100 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	0.93		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.20



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.20	2000	3500	1050	3000	950	DN 40	DN 20

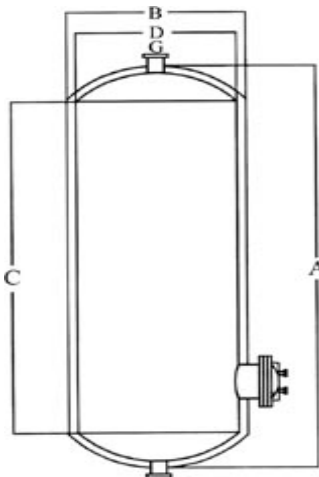
### Technical Specification:

Type	: VEX 0.20.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper $\frac{3}{4}$ inch.
Storage Capacity	: 2000 Lt.
Steam Consumption	: 178.4 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 20, PN 16. : <b>Condensate</b> : DN 20, PN 16. : <b>Domestic Water</b> : DN 40, PN 16. : <b>Cold Water Inlet</b> : DN 40, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
Fluid Cir.	Water	Steam	
Total Flow	5000	178	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	100 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	1.35		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.25



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.25	2500	2500	1370	2000	1270	DN 40	DN 20

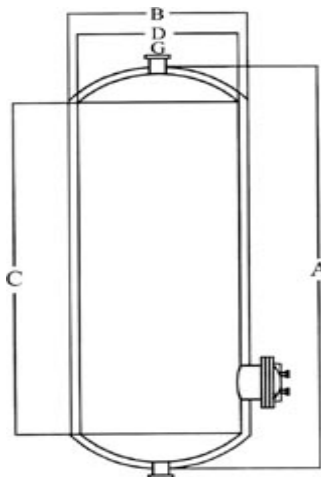
### Technical Specification:

Type	: VEX 0.25.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 2500 Lt.
Steam Consumption	: 223 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 25, PN 16. : <b>Condensate</b> : DN 20, PN 16. : <b>Domestic Water</b> : DN 40, PN 16. : <b>Cold Water Inlet</b> : DN 40, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
Fluid Cir.	Water	Steam	
Total Flow	7500	267	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	150 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	1.35		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.30



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.30	3000	2750	1370	2250	1270	DN 40	DN 20

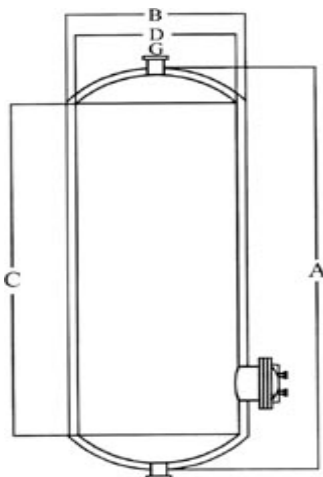
### Technical Specification:

Type	: VEX 0.30.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 3000 Lt.
Steam Consumption	: 267.6 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 25, PN 16.
	: <b>Condensate</b> : DN 20, PN 16.
	: <b>Domestic Water</b> : DN 40, PN 16.
	: <b>Cold Water Inlet</b> : DN 40, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

Fluid Cir.	Tube Side	Shell Side	
	Water	Steam	
Total Flow	7500	267	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	150 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	1.92		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.40



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.40	4000	3500	1370	3000	1270	DN 50	DN 25

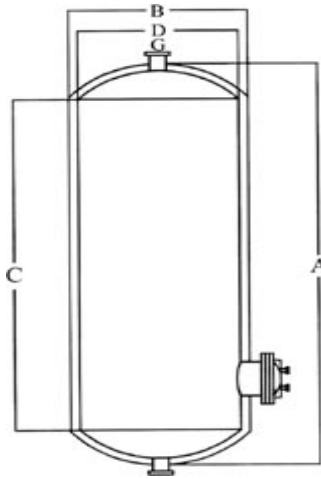
### Technical Specification:

Type	: VEX 0.40.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper $\frac{3}{4}$ inch.
Storage Capacity	: 4000 Lt.
Steam Consumption	: 356.8 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 25, PN 16. : <b>Condensate</b> : DN 20, PN 16. : <b>Domestic Water</b> : DN 50, PN 16. : <b>Cold Water Inlet</b> : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
Fluid Cir.	Water	Steam	
Total Flow	10000	356	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
LMTD	200 000		K.cal/ hr
LMTD Correction Factor	77		°C
Shell Side Film Coef.	1.00		-----
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	4860		K.cal/rm <sup>2</sup> .C
Total Fouling –Actual	0.000205		hr.m2.C/k.cal
Overall “U” Valve	0.00335		hr.m2.C/k.cal
Surface Area- Required	1626		K.cal/hr. m <sup>2</sup> .C
	2.5		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.50



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.50	5000	4500	1370	4000	1270	DN 50	DN 25

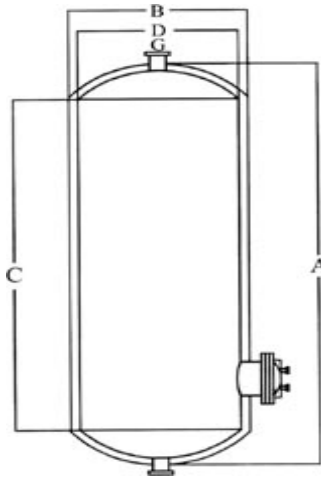
### Technical Specification:

Type	: VEX 0.50.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 5000 Lt.
Steam Consumption	: 446 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 40, PN 16. : <b>Condensate</b> : DN 25, PN 16. : <b>Domestic Water</b> : DN 50, PN 16. : <b>Cold Water Inlet</b> : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	15000	534	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	300 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m2.C/k.cal
Total Fouling –Actual	0.00335		hr.m2.C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	3.1		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.60



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.60	6000	5250	1690	3000	1590	DN 50	DN 25

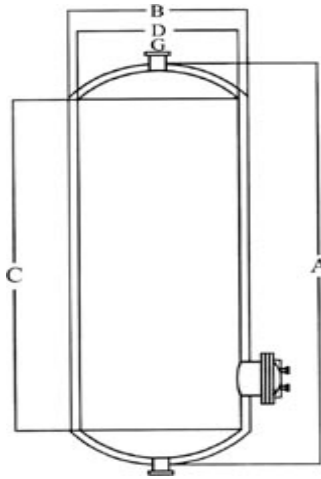
### Technical Specification:

Type	: VEX 0.60.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 6000 Lt.
Steam Consumption	: 535.2 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 40, PN 16. : <b>Condensate</b> : DN 25, PN 16. : <b>Domestic Water</b> : DN 50, PN 16. : <b>Cold Water Inlet</b> : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	15000	534	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	300 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m2.C/k.cal
Total Fouling –Actual	0.00335		hr.m2.C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	3.7		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.70



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.70	7000	4000	1690	3500	1590	DN 50	DN 25

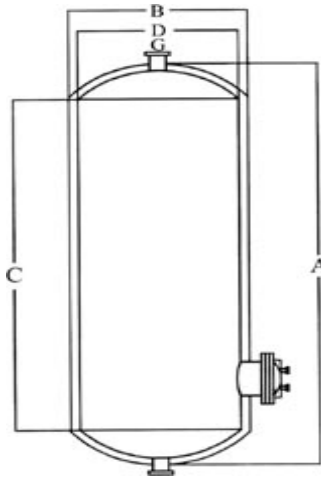
### Technical Specification:

Type	: VEX 0.70.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 7000 Lt.
Steam Consumption	: 624.4 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 40, PN 16.
	: <b>Condensate</b> : DN 25, PN 16.
	: <b>Domestic Water</b> : DN 50, PN 16.
	: <b>Cold Water Inlet</b> : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	20000	712	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	400 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m2.C/k.cal
Total Fouling –Actual	0.00335		hr.m2.C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	4.47		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 0.80



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
0.80	8000	4500	1690	4000	1590	DN 75	DN 25

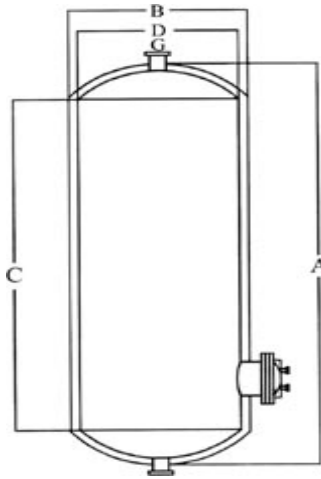
### Technical Specification:

Type	: VEX 0.80.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 7000 Lt.
Steam Consumption	: 624.4 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 40, PN 16. : <b>Condensate</b> : DN 25, PN 16. : <b>Domestic Water</b> : DN 50, PN 16. : <b>Cold Water Inlet</b> : DN 50, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	20000	712	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	400 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m2.C/k.cal
Total Fouling –Actual	0.00335		hr.m2.C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	5.1		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 1.00



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
1.00	10000	4250	1910	3750	1810	DN 75	DN 25

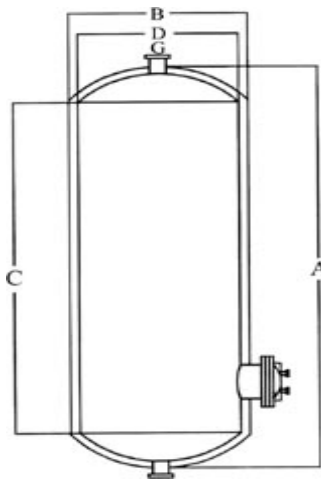
### Technical Specification:

Type	: VEX 1.00.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 10000 Lt.
Steam Consumption	: 892 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 50, PN 16. : <b>Condensate</b> : DN 40, PN 16. : <b>Domestic Water</b> : DN 75, PN 16. : <b>Cold Water Inlet</b> : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	30000	1068	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	600 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	6.28		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 1.20



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
1.20	12000	5000	1910	4500	1810	DN 75	DN 25

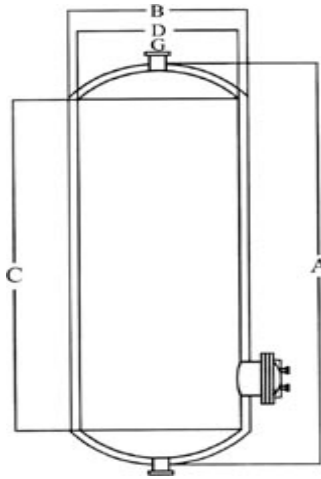
### Technical Specification:

Type	: VEX 1.20.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 12000 Lt.
Steam Consumption	: 1070.4 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 50, PN 16. : <b>Condensate</b> : DN 40, PN 16. : <b>Domestic Water</b> : DN 75, PN 16. : <b>Cold Water Inlet</b> : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	30000	1068	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:			
	600 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m2.C/k.cal
Total Fouling –Actual	0.00335		hr.m2.C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	7.5		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 1.40



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
1.40	14000	5750	1910	5250	1810	DN 75	DN 32

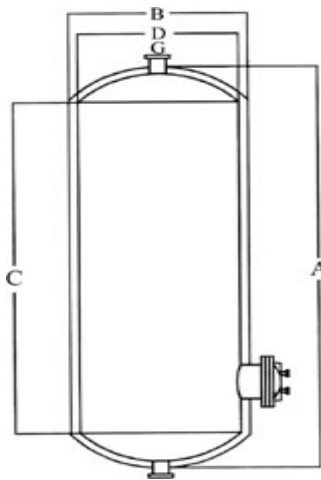
### Technical Specification:

<b>Type</b>	: VEX 1.40.
<b>Model</b>	: U. tube, heat bundle, vertical, Steam to Water.
<b>Working Press</b>	: 4 bar. (10 bar option)
<b>Testing Press</b>	: 6 bar. (16 bar option)
<b>Material</b>	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
<b>Storage Capacity</b>	: 14000 Lt.
<b>Steam Consumption</b>	: 1248.8 Kg/hr.
<b>Water Heating Up</b>	: 5-60° C.
<b>Connections</b>	: <b>Steam Inlet</b> : DN 50, PN 16.
	: <b>Condensate</b> : DN 40, PN 16.
	: <b>Domestic Water</b> : DN 75, PN 16.
	: <b>Cold Water Inlet</b> : DN 75, PN 16.
<b>Insulation</b>	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
<b>Gas Kets</b>	: Amient-lead sealing.
<b>Painting</b>	: Silver Enamel, anti corrosion, heat resistance coating.
<b>Platform</b>	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
<b>Fluid Cir.</b>			
<b>Total Flow</b>	37500	1335	L/hr
<b>Specific Gravity.</b>	0.98	0.95	-----
<b>Specific Heat.</b>	4.18	4.18	K.J/Kg.C
<b>Viscosity</b>	0.41	0.23	Centipoises
<b>Thermal Conductivity</b>	0.66	0.661	W/m.k.
<b>Inlet Temperature.</b>	45	135	° C
<b>Outlet Temperature.</b>	65	135	° C
<b>Steam Pressure</b>	-----	2	-----
<b>Velocity</b>	2.0	-----	m/sec.
<b>Pressure Drop</b>	0.2	-----	bar
<b>Heat Transfer Characteristic:</b>			
	750 000		K.cal/ hr
<b>LMTD</b>	77		°C
<b>LMTD Correction Factor</b>	1.00		-----
<b>Shell Side Film Coef.</b>	4860		K.cal/rm <sup>2</sup> .C
<b>Tube Side Film Coef.</b>	4860		K.cal/rm <sup>2</sup> .C
<b>Total Fouling – Requested</b>	0.000205		hr.m2.C/k.cal
<b>Total Fouling –Actual</b>	0.00335		hr.m2.C/k.cal
<b>Overall “U” Valve</b>	1626		K.cal/hr. m <sup>2</sup> .C
<b>Surface Area- Required</b>	8.7		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 1.60



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
1.60	16000	4500	2330	4000	2230	DN 75	DN 32

### Technical Specification:

<b>Type</b>	: VEX 1.60.
<b>Model</b>	: U. tube, heat bundle, vertical, Steam to Water.
<b>Working Press</b>	: 4 bar. (10 bar option)
<b>Testing Press</b>	: 6 bar. (16 bar option)
<b>Material</b>	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized.
	: <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.

**Storage Capacity** : 16000 Lt.

**Steam Consumption** : Kg/hr.

**Water Heating Up** : 5-60° C.

**Connections** : **Steam Inlet** : DN 75, PN 16.

: **Condensate** : DN 40, PN 16.

: **Domestic Water** : DN 75, PN 16.

: **Cold Water Inlet** : DN 75, PN 16.

**Insulation** : 50 mm of glass wool, density 70 Kg m<sup>3</sup> Cladded by stainless steel sheets (Mirror 304).

**Gas Kets** : Amient-lead sealing.

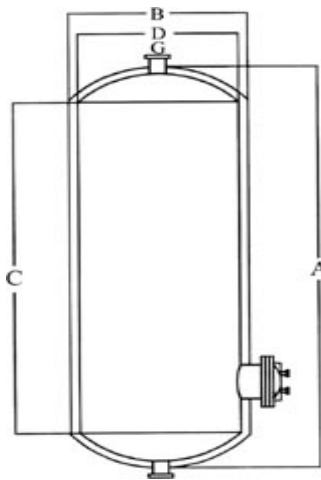
**Painting** : Silver Enamel, anti corrosion, heat resistance coating.

**Platform** : Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

Fluid Cir.	Tube Side	Shell Side	
	Water	Steam	
<b>Total Flow</b>	45000		L/hr
<b>Specific Gravity.</b>	0.98	0.95	-----
<b>Specific Heat.</b>	4.18	4.18	K.J/Kg.C
<b>Viscosity</b>	0.41	0.23	Centipoises
<b>Thermal Conductivity</b>	0.66	0.661	W/m.k.
<b>Inlet Temperature.</b>	45	135	° C
<b>Outlet Temperature.</b>	65	135	° C
<b>Steam Pressure</b>	-----	2	-----
<b>Velocity</b>	2.0	-----	m/sec.
<b>Pressure Drop</b>	0.2	-----	bar
<b>Heat Transfer Characteristic:</b>			
	900 000		K.cal/ hr
<b>LMTD</b>	77		°C
<b>LMTD Correction Factor</b>	1.00		-----
<b>Shell Side Film Coef.</b>	4860		K.cal/rm <sup>2</sup> .C
<b>Tube Side Film Coef.</b>	4860		K.cal/rm <sup>2</sup> .C
<b>Total Fouling – Requested</b>	0.000205		hr.m <sup>2</sup> .C/k.cal
<b>Total Fouling –Actual</b>	0.00335		hr.m <sup>2</sup> .C/k.cal
<b>Overall “U” Valve</b>	1626		K.cal/hr. m <sup>2</sup> .C
<b>Surface Area- Required</b>	10		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 1.80



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
1.80	18000	5000	2330	4500	2230	DN 75	DN 32

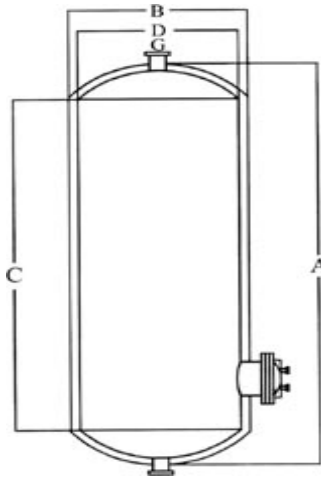
### Technical Specification:

Type	: VEX 1.80.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper ¾ inch.
Storage Capacity	: 18000 Lt.
Steam Consumption	: Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 75, PN 16. : <b>Condensate</b> : DN 40, PN 16. : <b>Domestic Water</b> : DN 75, PN 16. : <b>Cold Water Inlet</b> : DN 75, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	0.98	0.95	L/hr
Specific Gravity.	4.18	4.18	-----
Specific Heat.	0.41	0.23	K.J/Kg.C
Viscosity	0.66	0.661	Centipoises
Thermal Conductivity	45	135	W/m.k.
Inlet Temperature.	65	135	° C
Outlet Temperature.	-----	2	° C
Steam Pressure	2.0	-----	-----
Velocity	0.2	-----	m/sec.
Pressure Drop	0.98	0.95	bar
Heat Transfer Characteristic:			
	900 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m2.C/k.cal
Total Fouling –Actual	0.00335		hr.m2.C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	11.25		m <sup>2</sup>

## Storage Heat Exchanger Type VEX 2.00



Type VEX	Capacity Lt.	A	B	C	D	G	S.V
2.00	20000	5500	2330	5000	2230	DN 100	DN 32

### Technical Specification:

Type	: VEX 2.00.
Model	: U. tube, heat bundle, vertical, Steam to Water.
Working Press	: 4 bar. (10 bar option)
Testing Press	: 6 bar. (16 bar option)
Material	: <b>Shell</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Tube sheet</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Baffles</b> : Stainless steel (304/316) / Carbon steel epoxy lining / Copper / Galvanized. : <b>Coil</b> : Stainless steel (304/316) / Carbon steel / Copper $\frac{3}{4}$ inch.
Storage Capacity	: 20000 Lt.
Steam Consumption	: 1784 Kg/hr.
Water Heating Up	: 5-60° C.
Connections	: <b>Steam Inlet</b> : DN 75, PN 16. : <b>Condensate</b> : DN 40, PN 16. : <b>Domestic Water</b> : DN 100, PN 16. : <b>Cold Water Inlet</b> : DN 100, PN 16.
Insulation	: 50 mm of glass wool, density 70 Kg m <sup>3</sup> Cladded by stainless steel sheets (Mirror 304).
Gas Kets	: Amient-lead sealing.
Painting	: Silver Enamel, anti corrosion, heat resistance coating.
Platform	: Channel section, height: 35 cm.

### Performance Data: (Example for St. St. 304 material)

	Tube Side	Shell Side	
	Water	Steam	
Fluid Cir.			
Total Flow	50000	1780	L/hr
Specific Gravity.	0.98	0.95	-----
Specific Heat.	4.18	4.18	K.J/Kg.C
Viscosity	0.41	0.23	Centipoises
Thermal Conductivity	0.66	0.661	W/m.k.
Inlet Temperature.	45	135	° C
Outlet Temperature.	65	135	° C
Steam Pressure	-----	2	-----
Velocity	2.0	-----	m/sec.
Pressure Drop	0.2	-----	bar
Heat Transfer Characteristic:	1000 000		K.cal/ hr
LMTD	77		°C
LMTD Correction Factor	1.00		-----
Shell Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Tube Side Film Coef.	4860		K.cal/rm <sup>2</sup> .C
Total Fouling – Requested	0.000205		hr.m <sup>2</sup> .C/k.cal
Total Fouling –Actual	0.00335		hr.m <sup>2</sup> .C/k.cal
Overall “U” Valve	1626		K.cal/hr. m <sup>2</sup> .C
Surface Area- Required	12.5		m <sup>2</sup>