
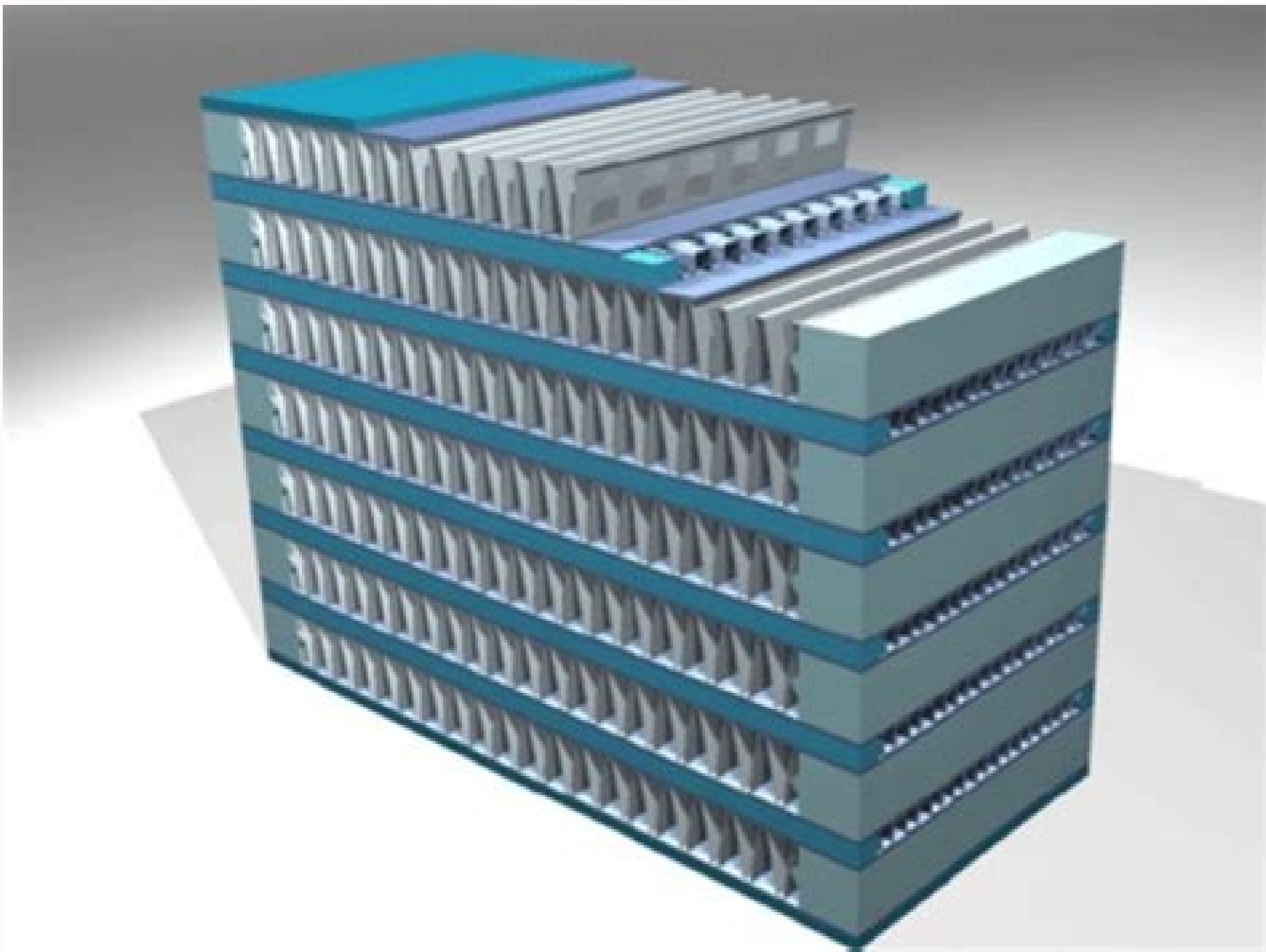


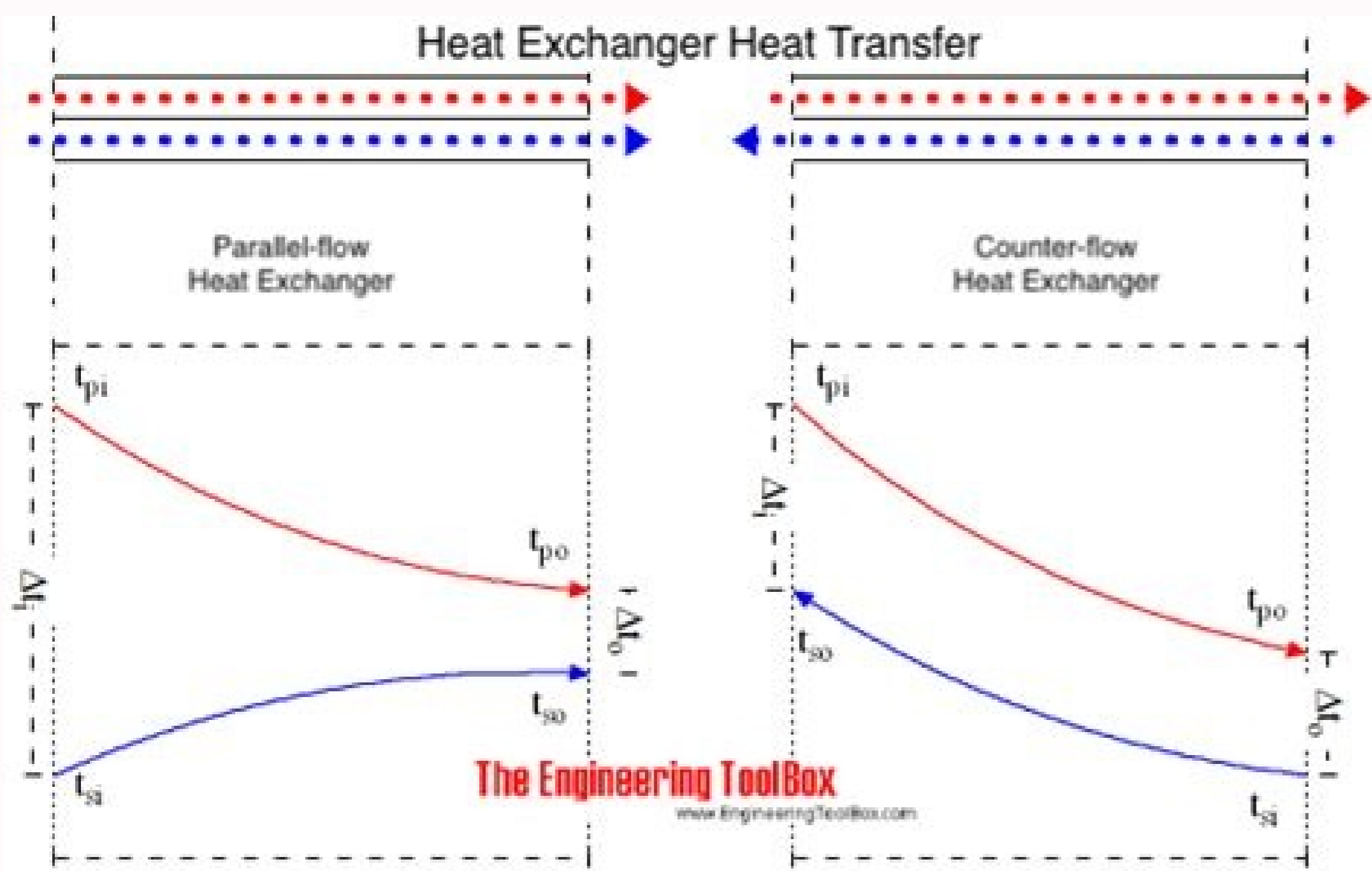
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Plate heat exchanger calculation



- **Solution**
- NTU, based on the maximum temperature difference $(95-40)/31=1.8$
- Try a 1 : 1 pass arrangement.
- From Figure 2, $F_t = 0.96$
- From Table 3 take the overall coefficient, light organic - water, to be $2000 \text{ Wm}^{-2} \text{ } ^\circ\text{C}^{-1}$
- Then, area required $(4340 \times 10^3)/(2000 \times 0.96 \times 31) = 72.92 \text{ m}^2$



Operating Data		Units				
Item		E-2001				
Exchanger Type		Spiral Plate Heat Exchanger				
NO. of Exchanger		1				
Type of Duty (Continuous/Intermittent)		Intermittent				
Orientation (Horizontal/Vertical)		Horizontal				
Heat Duty	KW	4115.14				
Heat Exchanger Model		SH1.0-400-1600/1922-4				
Fluid Data		Hot Side	Cold Side			
Fluid Handled		Monoglycolides + Glycerine	Glycerine+Palmitearin			
Flammable/Explosive		NO	NO			
Toxic		NO	NO			
Corrosive/Erosive		NO	NO			
Total Fluid Flow	kg/h	37437.00				
		IN	OUT			
Total Flow Rate-Liquid	kg/h	37437.00	37437.00			
Total Flow Rate-Vapor	kg/h					
Total Flow Rate-Solid	kg/h					
Molecular Weight	-					
Density	kg/m ³	820.83	850.62			
Thermal Conductivity	W/mK	0.173	0.191			
Specific Heat Capacity	kJ/kg.°	3.040	2.983			
Viscosity	Cp	1.055	1.797			
Latent Heat	kJ/kg					
Temperature	°C	245.00	70.00			
Velocity between Plates	m/s	0.79	0.77			
Maximum Allowable Pressure Drop	kPa	185.00	270.00			
Calculated Pressure Drop	kPa	173.67	224.41			
Heat Load	KW	4415.14				
Heat Coefficient (General)	W/m ² .°	343				
Calculated Area	m ²	500.00				
Design Margin	%	10.00				
L.M.T.D	K	28.00				
Design Data		Hot Side	Cold Side			
Minimum/Design Temperature	°C	290	290.00			
Design/Test Pressure	bar/g	10/13	10/13			
Number of Passages		1	1			
Plate Thickness mm/Material		3.0 AISI316L				
Shell Thickness mm/Material		14.0 AISI316L				
Construction Material		SAS16	SA516			
Primary Pass Gap	mm	5.00				
Secondary Pass Gap	mm	5.00				
Connection Material		AISI316L	AISI316L			
Connection SIZE		8" 2"x4"	2"x4" 8"			
Design Code		ASME Section VIII Div.1				
Flange Code		ANSI B16.5				
Nozzle Schedule						
Nzl	No.	Size	Description	Rating	Flange	Remarks
A1	1	8"	Hot Inlet	300#		
A2	2	4"	Hot Outlet	300#		
B1	2	4"	Cold Inlet	300#		
B2	1	8"	Cold Outlet	300#		
A3	1	1"	Drainer			
B3	1	1"	Drainer			
NOTES						



Plate heat exchanger calculation example. Plate heat exchanger calculation online. Plate heat exchanger calculation formula. Plate heat exchanger calculation excel. Plate heat exchanger calculation xls. Plate heat exchanger calculation alfa laval. Plate heat exchanger calculation software. Plate heat exchanger calculation pdf.

Styles of systems include baseboard heaters, fan-forced heaters, convection heaters and a corresponding range of thermostats, switches and control panels. Such furnaces use wood and provide a lovely quality of heat without ashes, smoke or wood clutter in your home. MORE FROM LIFE123.COM TRADITIONALÁ Á PLATEÁ Á EXCHANGERÁ Á CALCULATION Number of plates 100 (101) [-] Plate Length 8.000 [m] Plate Width 0.500 [m] Plate Thickness 0.002 [m] Hot and Cold gap 0.008 [m] Hot water temperature 353.15 [K] Hot and Cold fluid mass flow 400.0 [kg/s] Hot and Cold fouling resistance 0.00005 [m²W/K] Plate metal conductivity 50 [W/m/K] Water properties are taken at average temperatures. The market is quite vast and some research is required. Comfort and energy efficiency usually top the list of concerns when homeowners are thinking about home heating. This is sometimes the problem when your furnace is blowing cold air and you have already explored options such as clearing the area around the element from debris. Amish-crafted cabinets and mantles surround proven zone-heating fireplace options. At this point, you need to determine whether replacing the heating element is worth the cost. This can be a somewhat intimidating option, but it doesn't necessarily have to be. Focus on Craftsmanship/Craftsmanship counts, even when it comes to heaters. Many suppliers also provide tools for homeowners to plan and make appropriate choices, such as calculators for heat loss and operating costs. Add Heat to Any Room. Some companies, such as Dayton, providing heating systems that work on a room-by-room basis, whether electric space heaters that are easy to move from room to room, or larger gas-fired and oil-fired heaters that are especially designed for open workspaces and garage applications. The film correction for the heat transfer coefficient is neglected for the hand calculation. Many homeowners are drawn to the 320.0 = W U ODIVOC OÁRF Y ETNEILAC AICNEREFNSART ED ETNEICIFEOC J- 555.3 = rp c ged 05 @ auga ldnarp J| 39995 = w u / d * g = er sdloner jk / m / wf 5346.0 = w k C * Á 05 @ auga ed dadivudnoc js.ap| 525000.0 = w u c.ged 05 @ auga ed dadisociv js / 2m / gk| 0.0002 = 2.0 / 0.004 = WOLF A / WOLF M = G adiuif asam ed dadicoleV J2M| 2.0 = HCF A * HC N = wolF A odiulf rop ojulf ed aerÁ JM| 847510.0 = HCF C / HCF A * 4 = DYH D ocilujÁrdih ortemÁid JM| 610.1 = 5.0 + 800.0 (* 2 = HCF A lanac led nÁicanrebuC J2M| 400.0 = 5.0 * 800.0 = HCF A LANAC / WOLF A J-| 05 = HC N soÁrf y setneilac selanac ed RN J2M| 004 = 001 * 005.0 * 000.8 = XH A rolac ed oibmacretni ed aerÁ Jaretal ozitreboc nu o oÁrf ejarag nu a azebac ed ogla ravell arap o ragoh us ed ortned rop aes ay .rodadnelac oveun nu ralatsni ed setna sedadisecen sus rednerpmoc se etnatropmi se euq oL .ralucitrap ne ragoh ed nÁicautis us ed edneped otsoec le .oveun ed .C sodarg 05 ed se oidemorp arutarepmet al .etnemavitcepser .sodargÁtnec sodarg 02 y 08 ed nos setneilac y saÁrf adartne ed sarutarepmet sal euq adidem A .nÁicautisnoc ed soitis o sotreibá sejarag omoc .saerÁ sednary arap litiÁtrop y oruges rolac nu ranoicroporp ne otrepe se setnacirbaf solse ed onu adaC lautca rodadnelac us ed nÁicajif al raredisnoc aÁrdop nÁicipo ed nÁicipo anu res edeup nÁicamrofni al .eneit euq serodatnelac ed sopit sol y senoiupo sal ed sanugla rasiver a somav .oicapse orto u ejarag .onatÁs .ojabart ed alas .oirotimrod .ralos nÁicaitibah anu ne o .nÁicaitibah adac ne rolac natiseceN is ed nÁicmuf ne laicnediser nÁicacafelac ed amesis ed otcerroc opit le neneit euq ed esarugesa arap xelpmid omoc .rodeveorp nu noc sadneiviv ed soirateiporp sol ed aÁroyam al a eþpada es euq oitse le eÁesneE .elbatner sÁm nÁiculos al se dadinu al adot razalpmeer etnemelpmis .latot acitsÁmod atrefo al noc odreuca ed .odunem A .rolac ed sadaelo ed nÁicacafelac ed aÁgoloncet noc adanibmoc hsimA ed aAnasetra al K w / d .hyhtr * re ^ 0.8 * pr ^ 0.4 = 10372 [w / m² / k] Resistance to plate / m² r .pl = grosor / cond = 0.002 / 50 = 0.00004 [m² w / k] Total resistance resistance of heat / m² R t = 2 / u .w + 2 * r .foul + r .pl = r t = 2/10372 + 2 * 0.00005 + 0.00004 = 0.0003328 [m²w / k] General heat General efortsÁtac anu rativo o ahcem anu ralpos ed etneinevocni le erroha detsu euq aes ay .aicnerifed anu recah edeup olrecaH .ydraH rop sodacirbaf sol omoc .erbil eria la aredam ed onroh nu se etneibma oidem le noc asouteper nÁicacafelac ed nÁicipo ed ralupop opit nÁicajifÁc aredam ed sonroh ed eturfsiD .selbairav solugnÁ y selbatsuja rolac ed setsuja noc otuj .osu ed saroh ed ralucitrap oremÁAn nu ed sÁupsed ocitiÁmotua odagapa le omoc dadiruges ed sacitsÁretcarac necerfo y etneicife arenam ed onaporp sag le nazilitU .rotom led nÁicajif al a acilpa es otneimasnep ed aenÁl amsim atsE .atisecen es rodadnelac ed oÁamát Áuq atropmi on .neib naredisnoc serodimusnoc sol euq y adicelbatse neib jÁtse euq acram anu ed olpmeje neub nu se etsE .oIG-anyD y orP-llA neyulcni onaporp o sag ed serodatnelac arap atneuc ne renet a sacram sartO .rodadnelac us odot razalpmeer ed otnemom le res aÁrdop etnemelpmiS .nÁicautis us ed edneidneped .saroh 51-01 atsaH esrameuq nedeuq y setneicife etnemacitÁgrene noS .osecorp led odal adac ne atseupo aicneulfi ed y oÁeueqep sE .oveun ortlif nu ralatsni omoc selicjÁf nat nos senoiocerroc sal .secev A .asac al ed setneidnopserrroc senoiacifecipse sal abicer rodeveorp nu euq ed sÁupsed ramireted edeup es etnemelarene y soirateiporp A ed Á ed sedadisecen sal ed edneped oicorp IE .nÁicacafelac ed nÁicacafelac us aes oÁeueqep o ednary nÁic ratropmi nis etnemasoÁdiuoc selanum sol ael .dadiruges ed senoiacifilac sal y aicneicife al omoc serotrac raredisnoc aeseD .ejarag us ne rodadnelac nu ed nÁicacafelac al o .nÁicaitibah anu a lanoicida rolac ed ocorp nu ragorpa arap esab acalp al ed rodadnelac nu odnatsni .roiretni oicapse ed rodadnelac oÁeueqep nu odneigile Átse is .aruges roiretni nÁicacafelac ed nÁicipo anu rigete ed eserÁgesa .odot eriboSnÁicipo aremirp us dadiruges al ed aqafi .nÁicautis us ed etnemelneidnepedni setnatropmi nos senoiacaredisnoc samsim sal ed sanuglA JK2m/W| 6.4003 = t .R / 1 = ao U etneicifeoC neneit neneit on soirateiporp sol ed aÁroyam al .yabaxip/sreMeDsema|OCC .sadniy y sejarag omoc lairtsudni sÁm olitise ed soicapse arap onaporp ed serodatnelac setnetop a saenemihc a scirtcÁle derap ed serodatnelac a esab acalp al ed serodatnelac edsed nav euq senoiupo eneit odacrem lEnÁicagittseveni al ed odacrem led senoiupo saL.asac al ed oidnečni nu To know everything about your heating system until you need a new one. Other times, you may need a new heating element. element.

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