

# TEPELNÉ ERPADLO KONDENZÁTOR - VÝKONNOS

## VÝMENNÍK TEPLA: B8LAS-NHPx36

SWEP SSP™

Dátum: 02/06/2026

Alias v SSP: B8LAS-NHP

TECHNICKÉ ZADANIE		Strana 1	Strana 2
Tekutina		R32	Water
Typ toku			Protiprúd
Okruh		Vnútoraná	Vonkajšia
Kanál		Úzky	Široký
Výkon	kW		6.000
Vstupná kvalita výparu		1.000	
Výstupná kvalita vparu		0.000	
Vstupná teplota	°C	50.0	27.0
Kondenzačná teplota (rosný bod)	°C	32.7	
Podchladenie	K	5.0	
Actual Subcooling	K	5.0	
Výstupná teplota	°C	27.7	32.0
Prietok	kg/s	0.02083	0.2872
Prietok kondenzátu	kg/s	0.02083	

DOSKOVÝ VÝMENNÍK TEPLA		Strana 1	Strana 2
Celková plocha výmeny tepla	m <sup>2</sup>		0.860
Tepelný tok	kW/m <sup>2</sup>		6.98
Stredný log. teplotný rozdiel	K		2.6
Overall heat transfer coefficient požadované	W/m <sup>2</sup> , °C		2640
Tlaková strata - celková*	kPa	2.36	20.4
- v portoch (Vstup/Výstup)	kPa	-0.0577/7.04e-3	0.971
Strata tlaku v distributore chladiva	kPa	0.000	
Operating pressure (Dew)	kPa	2060	
Výstupný tlak	kPa	2060	
Počet kanálov na priechod		17	18
Počet dosiek			36
Plošná rezerva	%		0
Faktor znečistenia	m <sup>2</sup> , °C/kW		0.001
Priemer pripojenia (hore/dole)	mm	16.0/16.0	16.0/16.0
Doporučený priemer vstupného pripojenia	mm	4.44 - 9.93	
Doporučený priemer výstupného pripojenia	mm	3.78 - 7.55	
Reynoldovo číslo			541.8
Vstup Rýchlosť v porte	m/s	1.92	1.43
Rýchlosť v kanáloch	m/s	0.283	0.200
Strihové napätie	kPa		0.0385
Max. tepelný rozdiel na stene	K		0.2
Min./Max. teplota steny	°C	27.1/32.8	27.1/32.7

\*S výnimkou tlakovej straty v konetoroch.

FYZIKÁLNE VLASTNOSTI		Strana 1	Strana 2
Referenčná teplota	°C	32.7	29.5
Kvapalina • Dynamická viskozita	cP	0.104	0.807
• Hustota	kg/m <sup>3</sup>	929.2	995.8
• Merná tepelná kapacita	kJ/kg, °C	1.991	4.179
• Tepelná vodivosť	W/m, °C	0.1200	0.6146
Para • Dynamická viskozita	cP	0.0129	
• Hustota	kg/m <sup>3</sup>	53.80	
• Merná tepelná kapacita	kJ/kg, °C	1.336	
• Tepelná vodivosť	W/m, °C	0.01302	
• Latentné teplo	kJ/kg	255.2	
Koeficient prestupu tepla	W/m <sup>2</sup> , °C	4790	11000

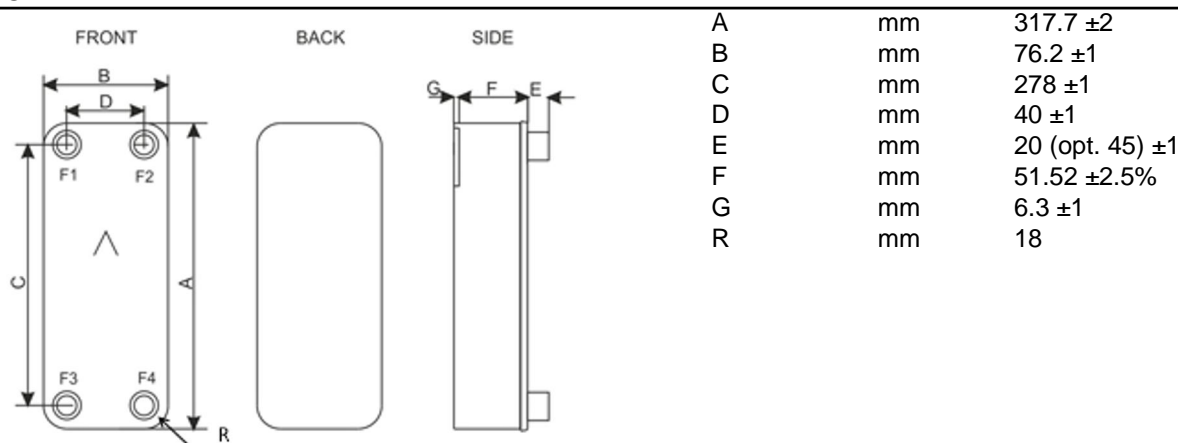


FYZIKÁLNE VLASTNOSTI		Strana 1	Strana 2
• Bub Enthalpy	kJ/kg	0.0000	
• Dew Enthalpy	kJ/kg	0.0000	
• Inlet Enthalpy	kJ/kg	37.92	
• Outlet Enthalpy	kJ/kg	-10.33	

ÚHRNÉ HODNOTY		Strana 1	Strana 2
Celková hmotnosť (bez konektorov)*	kg		2.96
Hold-up objem (Vnútorňa Okruh)	dm <sup>3</sup>		0.35
Odhadovaná nápl chladiacej kvapaliny	kg		0.08
Hold-up objem (Vonkajšia Okruh)	dm <sup>3</sup>		0.43
Ve kos portu F1/P1	mm		16
Ve kos portu F2/P2	mm		16
Ve kos portu F3/P3	mm		16
Ve kos portu F4/P4	mm		16

\*Hmotnosť závisí od zvoleného produktu.

## ROZMERY



\*To je schematický nárt. Pre správne výkresy použite funkciu "Objednaj výkres" alebo sa obráťte na SWEP zástupcu.

UHLÍKOVÁ STOPA	Unit	Value
Sweden - Landskrona	kg CO <sub>2</sub> e	15.3
USA - Tulsa	kg CO <sub>2</sub> e	16.0
Slovakia - Košice	kg CO <sub>2</sub> e	17.3
Malaysia - Kuala Lumpur	kg CO <sub>2</sub> e	24.2
China - Suzhou	kg CO <sub>2</sub> e	41.4

### Legal notice:

By using the SSP/SWEP SSP™ software the Licensee confirms that the input data is not subject to export control laws including ITAR (International Traffic in Arms Regulations). Licensee further agrees and confirms that the configured products are not subject to export control laws including ITAR and do not qualify as "specially designed" for export control purposes. If you would like to discuss configuration of export controlled products including ITAR-qualifying products, or if your data is export controlled, please reach out to your SWEP representative or email info@swepgroup.com.

### Disclaimer:

Data used in this calculation is subject to change without notice. SWEP strives to use "best practice" for the calculations leading to the above results. Calculation is intended to show thermal and hydraulic performance, no consideration has been taken to mechanical strength of the product. Product restrictions - such as pressure, temperatures and corrosion resistance- can be found in SWEP product sheets and other technical documentation. SWEP may have patents, trademarks, copyrights or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from SWEP, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property. To the maximum extent permitted by applicable law, the software, the calculations and the results are provided without warranties of any kind, whether express or implied. No advice or information obtained through use of the software (including information provided in the results), will create any warranty not expressly stated in the applicable license terms. Without limiting the foregoing, SWEP does not warrant that the content (including the calculations and the results) is accurate, reliable or correct. SWEP does not warrant that any system comprising heat exchanger and other components, installed on the basis of calculations in this software, will meet your requirements or function to your satisfaction or expectations.

