

Tranter GCD-044NR

Specifications

Brand	Tranter
Type	GCD-044NR
Product type	PHE
Refrigerant / Medium	Water/Glycol
Capacity kW	300,0
Surface (m2)	70 m ²
Size	2000x460x1140 mm (LxWxH)
Layers / Cassettes	146
Volume	Hot side: 46,8 dm ³ Cold side: 47,4 dm ³
Remarks	Y.o.b. 2016
Stock	1



Description

Used Tranter GCD-044NR

Used Tranter GCD-044NR heat exchanger with 146 layers for Water / Glycol built in 2016. The heat exchanger has a volume of 46,8 dm³ (Hot side) & 47,4 dm³ (Cold side). Block dimensions: 1350x390x310 mm (LxWxH).

Capacity of 300 kW based on the following:

Hot side: (Water)

Liquid flow: 64,8 m³/h

Temp in: 27°C and out: 23°C.

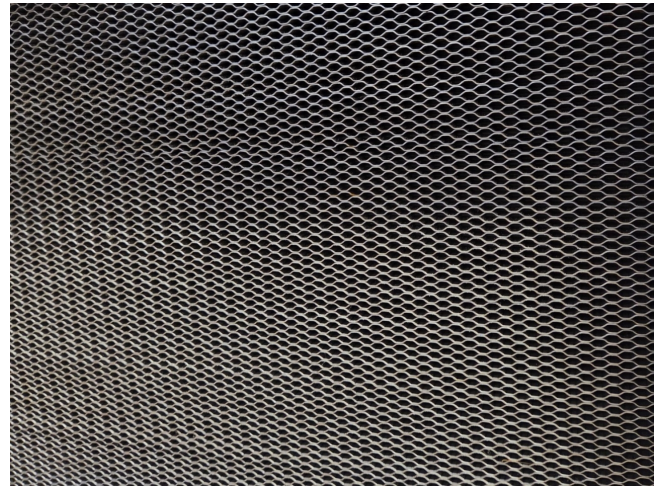
Cold side: (EthGlycol 30%) Liquid flow: 70,1 m³/h

Temp in: 22°C and out: 26°C



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MODEL	GCD-044NR	MFG. YEAR	2016
CONTROL			
SERIAL	238397-1	SIDE 1	SIDE 2
Max./min. work. pressure PS (bar)	16/-1	10/-1	
Max./min. working temp. TS (°C)	80/-10	80/-10	
Volume V (L)	46.8	47.4	
Channel arrangement	404+32L		
Connection IN/OUT	51/55		
Material in Connections	14401		
Test pressure PT (bar)	14.3	14.8	
Weight empty/full (kg)	635	785	





Fluid Name	Hot Side		Cold Side	
	Water		30% EthGlycol (aq)	
OPERATING DATA	Inlet	Outlet	Inlet	Outlet
Total Liquid flow	m ³ /h	64.81	70.09	70.09
Operating Temperature	°C	27.00	22.00	26.00
Pressure drop (allowed / calc.)	kPa	45.00 / 32.61	45.00 / 44.77	
Total Heat Exchanged	kW		300	
U-Service	W/(m ² ·°C)		4.252	
Total Heat Transfer Area	m ²		70.56	
LMTD	°C		1.00	
FLUID PROPERTIES	Inlet	Outlet	Inlet	Outlet
Specific Gravity	1.00	1.00	1.04	1.04
Specific Heat	kJ/(kg·°C)	4.18	3.72	3.73
Thermal Conductivity	W/(m·°C)	0.61	0.49	0.49
Viscosity (avg.)	cP	0.85	2.01	1.80
CONNECTIONS				
Position	S1	S3	S2	S4
Type	STUDDER	STUDDER	STUDDER	STUDDER
Size	DN100	DN100	DN100	DN100
Rating	DIN2501 PN10	DIN2501 PN10	DIN2501 PN10	DIN2501 PN10
Material	1.4401		1.4401	
CONSTRUCTION				
Pass Arrangement	1		1	
Channel Arrangement	40M+32L		40M+33L	
A- Dimension / C- Dimension	mm	306.6 / 1036		
Plate Material (Material/Thickness)		1.4401 / 0.5 mm		
Gasket Material (Hot/Cold)		NBR		NBR
No. of Plates		146		
Frame material / Paint / Color		S355J2 Carbon Steel / Enamel / RAL 5012 (Royal Blue)		
Tightening Bolts/Nuts/Finish		8.8 / 8 / FZB		
Pressure (design / test)	MPa(g)	1.00 / 1.43	1.00 / 1.43	
Temperature (min / design)	°C	-10.00 / 80.00	-10.00 / 80.00	
Weight empty / flooded (per unit)	kg	640 / 736		