

# Tranter GCD-044NR

## Specifications

Marka	Tranter
Rodzaj	GCD-044NR
Typ produktu	PHE
Refrigerant / Medium	Water/Glycol
Ogólna wydajność w kW	300,0
Powierzchnia (m2)	70 m <sup>2</sup>
Size	2000x460x1140 mm (LxWxH)
Layers / Cassettes	146
Volume	Hot side: 46,8 dm <sup>3</sup> Cold side: 47,4 dm <sup>3</sup>
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 dm<sup>3</sup> (Hot side) & 47,4 dm<sup>3</sup> (Cold side). Block dimensions: 1350x390x310 mm (LxWxH).

Capacity of 300 kW based on the following:

Hot side: (Water)

Liquid flow: 64,8 m<sup>3</sup>/h

Temp in: 27°C and out: 23°C.

Cold side: (EthGlycol 30%) Liquid flow: 70,1 m<sup>3</sup>/h

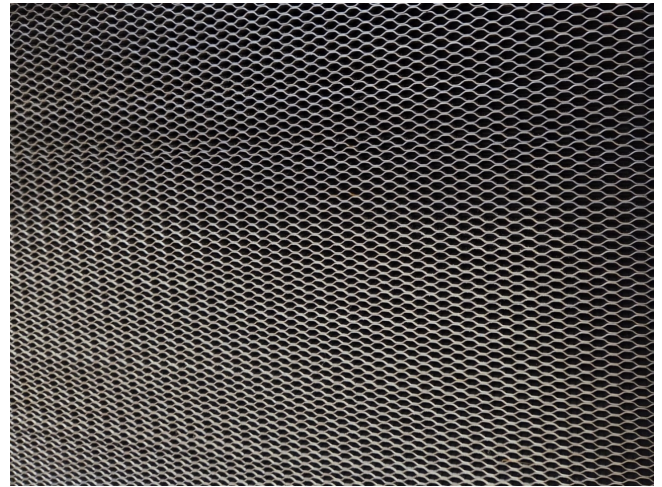
Temp in: 22°C and out: 26°C



**TRANTER International AB**  
Korta Gatan 9, SE-171 54 Solna, Sweden  
Tel. + 46-8-442 49 70 Fax + 46-8-442 49 80

MODEL	GCD-0A4NR	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	789	





	Hot Side		Cold Side		
Fluid Name	Water		30% EthGlycol (aq)		
<b>OPERATING DATA</b>					
	<b>Inlet</b>	<b>Outlet</b>	<b>Inlet</b>	<b>Outlet</b>	
Total Liquid flow	m <sup>3</sup> /h	64.81	64.81	70.09	70.09 m <sup>3</sup> /h
Operating Temperature	°C	27.00	23.00	22.00	26.00 °C
Pressure drop (allowed / calc.)	kPa	45.00 / 32.61		45.00 / 44.77	
Total Heat Exchanged	kW			300	
U-Service	W/(m <sup>2</sup> ·°C)			4.252	
Total Heat Transfer Area	m <sup>2</sup>			70.56	
LMTD	°C			1.00	
<b>FLUID PROPERTIES</b>					
	<b>Inlet</b>	<b>Outlet</b>	<b>Inlet</b>	<b>Outlet</b>	
Specific Gravity		1.00	1.00	1.04	
Specific Heat	kJ/(kg·°C)	4.18	4.18	3.72	3.73
Thermal Conductivity	W/(m·°C)	0.61	0.60	0.49	0.49
Viscosity (avg.)	cP	0.85	0.93	2.01	1.80
<b>CONNECTIONS</b>					
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		
<b>CONSTRUCTION</b>					
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			