

# Your partner for used commercial and industrial refrigeration equipment

# Trane Rtab 214

## **Specifications**

Brand	Trane
Туре	Rtab 214
Product type	Air Cooled Chiller
Capacity kW	285
Capacity Tons	81
Refrigerant	Freon
Refrigerant Type	r134a
Weight in kg.	4700
Compressor(s) type &	screw, 2pc,
model	CHHB085DNL0N07a -
Remarks	yob 2001
Stock	1



## **Description**

## **Used Trane Rtab 214**

Used, well maintained Trane Rtab 214 air-cooled water chiller // 2 pc. semihermetic direct-drive helical rotary compressors CHHB models // freon r134a // DN 150 water connection // 6 fans 915/730 RPM// Oil sump heater // Choosing HOSBV means buying with warranty. We perform a industrial cleaning and rust spots will be covered. Also, we can arrange your shipment.



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		-		
N* SERIE - SERIAL NUMBER EKLOSEO ANNE	MONTH/	5/2001		
OMPRESSEUR CLC3	A max / FLA	kWmax		
100/30/3	119	74		
	198	67		
VENTILATEUR - FANS	4.2	1.88		
	2.411.2	0.85/0.54		
POMPE A HUILE - OIL PUMP				
AUXILIAIRES - AUXILIARY				
CONTROLE - CONTROL		1200 VA		
INTENSITE DEMARRAGE - STARTING AMPS	274			
INTENSITE NOMINALE C1-C3/ RATED LOAD AMP C2-C4	a BP/HP for LP/HP	2.1/43,7 b		
REFRIGERANT STATE - OTY CI-CI	3/62-64	i ku		
HUILE - OIL	3/62-64			
PRESSION MAXI D'UTILISATION (bor) BP MAX WORKING PRESSURE UP	KE HP			
Internet in the second of the	N*			







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## Table 1C : General data on units R134a (standard units)

Model RTAA		213	214	215	216	217	322	324	328	430	432	434
Nominal Cooling Capacity (1)	(kW)	287	320	331	378	406	428	482	537	603	649	717
Number of Circuit		2	2	2	2	2	2	2	2	2	2	2
Number of Compressor		1/1	1/1	1/1	1/1	1/1	2/1	2/1	2/1	2/2	2/2	2/2
Maximum FLA 400/50/3 (2)	(A)	234	245	250	283	309	363	413	400	513	505	618
Number of fans		8	8	8	9	10	12	14	16	16	18	20
Fan Motor Size (3)	(kW)	1.21/0.85	1.21/0.85	1.21/0.85	1.21/0.85	1.21/0.85	1.21/0.85	1.21/0.85	1.21/0.85	5 1.21/0.8	5 1.21/0.8	5 1.21/0.8
Fan Speed (3)	(rpm)	730/680	730/680	730/680	730/680	730/680	730/680	730,680	730/690	730/680	730/68	
Oil sump heater	(W)	150/150	150/150	150/150	150/150	150/150	300/150	300/150	300/150	300/300	300/30	300/30
Evaporator Model		ES120	ES140	ES140	ES170	ES170	ES225	ES225	E\$250	E\$300	ES300	ES340
Evaporator Heater Cable	(W)	400	400	400	400	400	400	400	400	400	400	400
Evaporator Water Connection	(mm)	DN150	DN150	DN150	DN 150	DN150	vic 6"	vic 6"	vic 6"	vic 6*	vic 6"	vic 6"
Evaporator Water Volume	(1)	106	270	270	222	222	442	442	415	665	665	610
Oil Charge	(1)	15/15	17/17	17/17	20/17	20/20	30/17	34/20	40/20	34/34	40/34	40/40
R134a Opearting Charge	(kg)52/52	62/62	62/62	64/64	64/64	104/59	129/59	132/61	128/128	128/128	132/13	2
												_
Model RTAB		108	109	110	207	209	210			212	213	214
Nominal Cooling Capacity (1)		137	153	180	118	146	165			215	261	285
Number of Circuit		1	1	1	2	2	2	2		2	2	2
Number of Compressor		1	1	1	1/1	1/1	1/1			1/1	1/1	1/1
Maximum FLA 400/50/3 (2)	(A)	119	133	159	121	137	150			196	239	250
Number of fans		4	5	6	4	4	5	6		6	6	6
Fan Motor Size (3)	(kW)	1.88/1.88	1.88/1.88	1.88/1.88								1.88/1.21
Fan Speed (3)	(rpm)	915/915	915/915	915/915	915/915	915/91	5 915/9	15 915/	915 91	5/915 9	15/730	915/730
Oil sump heater	(W)	150	150	150	150/15			50 150/	150 15	0/150 1	50/150	150/150
Evaporator Model		ES71	ES81	ES81	587-2	ES70					S120	ES140
Evaporator Heater Cable	(W)	200	200	200	200	200	200			200	200	200
Evaporator Water Connection	(mm)	DN125	DN125	DN125	DN125	DN125	5 DN1:	25 DN	125 DI	N125 0	DN125	DN150
Evaporator Water Volume	(1)	145	134	118	95	145	134			118	106	270
Oil Charge	(1)	16	16	16	8/8	8/8	8/8				15/15	15/15
R134a Opearting Charge	(kg) 42	44	46	20/20	21/21	22/22	22/22	28/28	40/40	43/43		100000
					200						10.1	
Model RTAB Nominal Cooling Capacity (1)		215 301	216 337	217 364	220 418	324 478	328			432 648	434 715	
Number of Circuit		2		2	2	4/8	2	2		2		
Number of Compressor		1/1	2	1/1	2/2	2/1	2/1			2/2	2	
Maximum FLA 400/50/3 (2)	(A)	261	289	317	379	412	464			567	619	
Number of fans	(44)	6	7	8	3/9	412	404	1		11	12	
Fan Motor Size (3)	(kW)	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.2						12	
Fan Motor Size (3) Fan Speed (3)	(kW) (rpm)	1.88/1.21 915/730	1.88/1.21 915/730	1.88/1.21 915/730	1.88/1.2						15/730	
	(rpm)	150/150	915//30	915/730							00/300	
Oil sump heater	(W)	150/150 ES140	150/150 ES170	150/150 ES170	300/30 ES200						00/300 ES340	
Evaporator Model Evaporator Heater Cable	(W)	200	200	ES170 200	ES200 200	200	200			S300 E 200	200	
		200 DN150	200 DN150	200 DN150	200 DN150						200 vic 6*	
Evaporator Water Connection	(mm)						vic 6					
Evaporator Water Volume	(1)	270	222	222	204	442	415			665	610	
Oil Charge R134a Opearting Charge	(I) (kg)50/50	53/53	17/20	20/20	16/16	34/20				0/34	40/40	
				80/80	72/44	74/45	77/72	77/72	80/75			

Note : (1) Operating conditions: chilled water 12/7°C, 35°C ambient, fouling factor = 0.044 m² K/kW (2) To be used for sizing the power supply cables (3) LN(SQ units (Except RTAB 213 to 434: Standard units/LN units)

## Figure 11B - Typical CHHB compressor



## Oil system operation

Overview Oil that collects in the bottom of the oil separator is at condensing pressure during compressor operation ; the refose, oil is constantly moving to lowwer pressure

refose, oil is constantly moving to lowwer pressure areas. As the oil leaves the separator, it passes through the oil cooler at the top of the condensing coils. It then goes through the service valve and filter. At this point, some remaining oil passes through the oil mastre solenoid val-ve and performs the functions of compressor bearing lubrication and compressor oil injection. If the compres-sor stops for any reason, the master solenoid val-coses, isolating the oil charge in the separator and oil cooler during soft periods. To ensure proper lubrication and minimize refrigerant condensation in the compressor, a heater is mounted on the bottm of the compressor, a heater is mounted on UCM energizes this heater during the compressor addi-tycyle to keep refrigerant from condensing in the com-pressor. The heater element is continiuously energized.

Oil separator The mixture oil + refrigerant enters tangentially the oil separator and awiris around. Thus, the oil (which is den-ser) is thrown to the outside wall and flows to the bot-tom of the separator. It then goes to the cooling circuit. The gas exits out the middle part of the separator and is discharged into the condensing colis. (Figure 12).

Compressor bearing oil supply Oil is injected into the bearing housings located at each end of both the male and fermale rotors. Each bearing housing is vented to compressor suction, so that oil lea-ving the bearings returns through the compressor rotors to the oil separator.

Compressor rotor oil supply Oil flows through this circuit directly from the master solenoid valve, through the oil filter to the top of the compressor rotor housing. There, it is injected along the top of the rotors to seal clearance spaces between the rotors and the compressor housing and to lubricate the rotors.

### Figure 12 - Oil separator

