

Table 1A : General data on units R22 (standard units)

Model RTAA		213	214	215	216	217	322	324	328	430	432	434
Nominal Cooling Capacity (1)	(kW)	438	481	503	555	601	664	769	865	952	1036	1140
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)	308	331	354	384	414	485	561	621	708	768	828
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	1.21/0.85	1.21/0.85	1.21/0.85
Fan Speed (3)	(rpm)	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680
Oil sump heater	(W)	150/150	150/150	150/150	150/150	150/150	300/150	300/150	300/150	300/300	300/300	300/300
Evaporator Model		ES120	ES140	ES140	ES170	ES170	ES225	ES225	ES250	ES300	ES300	ES340
Evaporator Heater Cable	(W)	400	400	400	400	400	400	400	400	400	400	400
Evaporator Water Connection	(mm)	DN150	DN150	DN150	DN150	DN150	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"
Evaporator Water Volume	(l)	106	270	270	222	222	442	442	415	665	665	610
Oil Charge	(l)	15/15	17/17	17/17	20/17	20/20	30/17	34/20	40/20	34/34	40/34	40/40
R22 Opearting Charge	(kg)	47/47	56/56	56/56	58/58	58/58	94/53	117/53	120/55	116/116	116/116	120/120

Modèle RTAB		108	109	110	207	209	210	211
Nominal Cooling Capacity (1)		211	243	283	190	227	260	290
Number of Circuit		1	1	1	2	2	2	2
Number of Compressor		1	1	1	1/1	1/1	1/1	1/1
Maximum FLA 400/50/3 (2)	(A)	154	177	207	158	180	196	212
Number of fans		4	5	6	4	4	5	6
Fan Motor Size (3)	(kW)	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88
Fan Speed (3)	(rpm)	915/915	915/915	915/915	915/915	915/915	915/915	915/915
Oil sump heater	(W)	150	150	150	150/150	150/150	150/150	150/150
Evaporator Model		ES71	ES81	ES81	587-2	ES70	ES80	ES80
Evaporator Heater Cable	(W)	200	200	200	200	200	200	200
Evaporator Water Connection	(mm)	DN125	DN125	DN125	DN125	DN125	DN125	DN125
Evaporator Water Volume	(l)	145	134	118	95	145	134	134
Oil Charge	(l)	16	16	16	8/8	8/8	8/8	8/8
R22 Opearting Charge	(kg)	46	48	50	18/18	23/23	24/24	24/24

Model RTAB		212	213	214	215	216	217	220
Nominal Cooling Capacity (1)		330	417	452	479	523	567	629
Number of Circuit		2	2	2	2	2	2	2
Number of Compressor		1/1	1/1	1/1	1/1	1/1	1/1	2/2
Maximum FLA 400/50/3 (2)	(A)	256	308	331	354	384	414	512
Number of fans		6	8	9	10	9	10	10
Fan Motor Size (3)	(kW)	1.88/1.88	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21
Fan Speed (3)	(rpm)	915/730	915/730	915/730	915/730	915/730	915/730	915/730
Oil sump heater	(W)	150/150	150/150	150/150	150/150	150/150	150/150	300/300
Evaporator Model		ES100	ES120	ES140	ES140	ES170	ES170	ES200
Evaporator Heater Cable	(W)	200	200	200	200	200	200	200
Evaporator Water Connection	(mm)	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Evaporator Water Volume	(l)	118	106	270	270	222	222	204
Oil Charge	(l)	8/8	15/15	15/17	17/17	17/20	20/20	16/16
R22 Opearting Charge	(kg)	29/29	47/41	44/44	44/44	54/54	54/54	75/75

Table 1B : General data on units R404 A (standard units)

Model RTAA		213	214	215	216	217	322	324	328	430	432	434
Nominal Cooling Capacity (1)	(kW)	385	422	422	487	528	596	689	804	856	934	1023
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)	308	331	354	384	414	485	561	621	708	768	828
Number of fans		8	8	8	9	10	12	14	16	16	18	20
Fan Motor Size (3)	(kW)	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21	1.21/1.21
Fan Speed (3)	(rpm)	730/730	730/730	730/730	730/730	730/730	730/730	730/730	730/730	730/730	730/730	730/730
Oil sump heater	(W)	150/150	150/150	150/150	150/150	150/150	300/150	300/150	300/150	300/300	300/300	300/300
Evaporator Model		ES120	ES140	ES140	ES170	ES170	ES225	ES225	ES250	ES300	ES300	ES340
Evaporator Heater Cable	(W)	400	400	400	400	400	400	400	400	400	400	400
Evaporator Water Connection	(mm)	DN150	DN150	DN150	DN150	DN150	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"
Evaporator Water Volume	(l)	106	270	270	222	222	442	442	415	665	665	610
Oil Charge	(l)	15/15	17/17	17/17	20/17	20/20	30/17	34/20	40/20	34/34	40/34	40/40
R404A Opearting Charge	(kg)	47/47	53/53	53/53	55/55	55/55		111/50	114/52	110/110	110/110	132/132

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)

Model RTAB		108	109	110	207	209	210	211	212
Nominal Cooling Capacity (1)		207	225	269	188	224	250	276	333
Number of Circuit		1	1	1	2	2	2	2	2
Number of Compressor		1	1	1	1/1	1/1	1/1	1/1	1/1
Maximum FLA 400/50/3 (2)	(A)	154	177	207	158	180	196	212	256
Number of fans		4	5	6	4	4	5	6	6
Fan Motor Size (3)	(kW)	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88
Fan Speed (3)	(rpm)	915/915	915/915	915/915	915/915	915/915	915/915	915/915	915/915
Oil sump heater	(W)	150	150	150	150/150	150/150	150/150	150/150	150/150
Evaporator Model		ES71	ES81	ES81	587-2	ES70	ES80	ES80	ES100
Evaporator Heater Cable	(W)	200	200	200	200	200	200	200	200
Evaporator Water Connection	(mm)	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125
Evaporator Water Volume	(l)	145	134	118	95	145	134	134	118
Oil Charge	(l)	16	16	16	8/8	8/8	8/8	8/8	8/8
R404A Opearting Charge	(kg) 40	48	50	18/18	23/23	24/24	24/24	29/29	

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	256	283	309	363	413	466	513	565	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	1.21/0.85	1.21/0.85	1.21/0.85
Fan Speed (3)	(rpm)	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680	730/680
Oil sump heater	(W)	150/150	150/150	150/150	150/150	150/150	300/150	300/150	300/150	300/300	300/300	300/300
Evaporator Model		ES120	ES140	ES140	ES170	ES170	ES225	ES225	ES250	ES300	ES300	ES340
Evaporator Heater Cable	(W)	400	400	400	400	400	400	400	400	400	400	400
Evaporator Water Connection	(mm)	DN150	DN150	DN150	DN150	DN150	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"
Evaporator Water Volume	(l)	106	270	270	222	222	442	442	415	665	665	610
Oil Charge	(l)	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	132/132	

Model RTAB		108	109	110	207	209	210	211	212	213	214
Nominal Cooling Capacity (1)		137	153	180	118	146	165	180	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	1/1
Maximum FLA 400/50/3 (2)	(A)	119	133	159	121	137	150	164	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	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.88	1.88/1.21	1.88/1.21
Fan Speed (3)	(rpm)	915/915	915/915	915/915	915/915	915/915	915/915	915/915	915/915	915/730	915/730
Oil sump heater	(W)	150	150	150	150/150	150/150	150/150	150/150	150/150	150/150	150/150
Evaporator Model		ES71	ES81	ES81	587-2	ES70	ES80	ES80	ES100	ES120	ES140
Evaporator Heater Cable	(W)	200	200	200	200	200	200	200	200	200	200
Evaporator Water Connection	(mm)	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN150
Evaporator Water Volume	(l)	145	134	118	95	145	134	134	118	106	270
Oil Charge	(l)	16	16	16	8/8	8/8	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	

Model RTAB		215	216	217	220	324	328	430	432	434
Nominal Cooling Capacity (1)		301	337	364	418	478	543	601	648	715
Number of Circuit		2	2	2	2	2	2	2	2	2
Number of Compressor		1/1	1/1	1/1	2/2	2/1	2/1	2/2	2/2	2/2
Maximum FLA 400/50/3 (2)	(A)	261	289	317	379	412	464	515	567	619
Number of fans		6	7	8	8	8	9	10	11	12
Fan Motor Size (3)	(kW)	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21	1.88/1.21
Fan Speed (3)	(rpm)	915/730	915/730	915/730	915/730	915/730	915/730	915/730	915/730	915/730
Oil sump heater	(W)	150/150	150/150	150/150	300/300	300/150	300/150	300/300	300/300	300/300
Evaporator Model		ES140	ES170	ES170	ES200	ES225	ES250	ES300	ES300	ES340
Evaporator Heater Cable	(W)	200	200	200	200	200	200	200	200	200
Evaporator Water Connection	(mm)	DN150	DN150	DN150	DN150	vic 6"	vic 6"	vic 6"	vic 6"	vic 6"
Evaporator Water Volume	(l)	270	222	222	204	442	415	665	665	610
Oil Charge	(l)	17/17	17/20	20/20	16/16	34/20	40/20	34/34	40/34	40/40
R134a Opearting Charge	(kg)50/50	53/53	53/53	80/80	72/44	74/45	77/72	77/72	80/75	

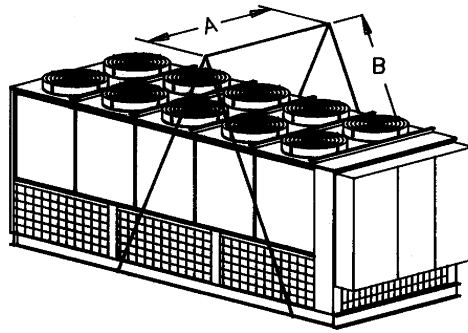
Note :

(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

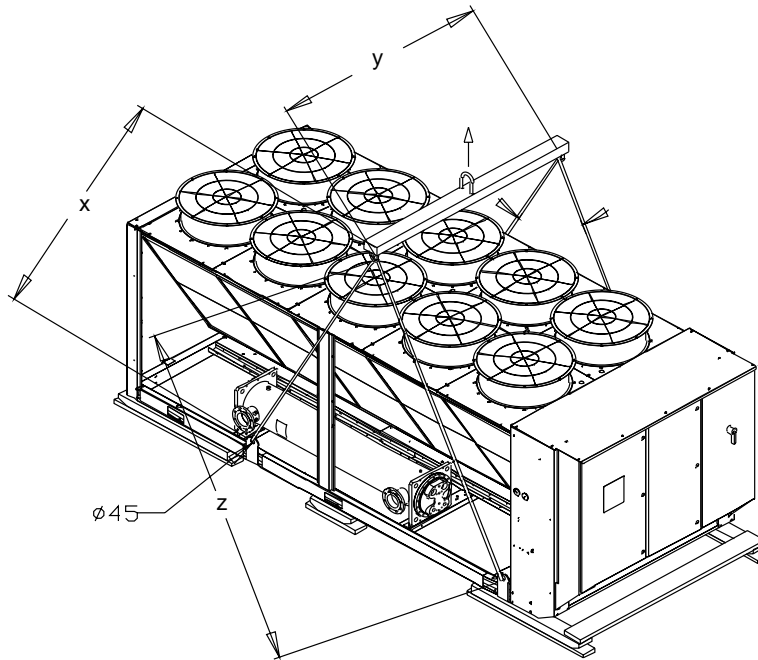
(3) LN/SQ units (Except RTAB 213 to 434: Standard units/LN units)

Figure 6A - RTAA rigging and lifting



RTAA	213	214	215	216	217	322	324	328	432/434
A (mm)	2107	2107	2107	2107	2107	2300	2300	2300	2300
B (mm)	3317	3317	3317	3317	3317	3300	3500	3500	3500
Maxi weight (kg)	4400	5300	5400	5500	5900	8000	8000	8000	10600

Figure 6B - RTAB rigging and lifting



RTAB	108	109	110	207	209	210	211	212
X (mm)	2300	2300	2300	2300	2300	2300	2300	2300
Y (mm)	2470	2470	2470	2510	2510	2510	2510	2510
Z (mm)	2670	2670	2670	2630	2630	2630	2630	2630
Maxi. weight (kg)	2580	2680	2700	2660	2770	2840	2890	2890

RTAB	213	214	215	216	217	220	324	328	430	432	434
X (mm)	2300	2300	2300	2300	2300	2200	2300	2300	2300	2300	2300
Y (mm)	3000	3000	3000	3000	3000	3450	3900	3900	3900	3900	3900
Z (mm)	3000	3000	3000	3000	3000	3450	3900	3900	3900	3900	3900
Maxi. weight (kg)	4170	4700	4720	5190	5240	5900	6550	6630	7820	7870	7950