

Chladicí jednotka BCHJ CARRIER 30RBS-039 v objektu F

Physical data



30RBS		039	045	050	060	070	080	090	100	120	140	160
Nominal cooling capacity, standard unit*	kW	39.3	44.6	51.9	58.4	66.7	78.6	89.4	99.9	117.0	134.3	157.1
Power input	kW	13.7	16.1	18.9	21.2	24.4	29.0	31.8	35.9	43.2	49.1	57.9
EER	kW/kW	2.88	2.77	2.75	2.76	2.74	2.71	2.81	2.78	2.71	2.74	2.71
Eurovent class, cooling	C	C	C	C	C	C	C	C	C	C	C	C
ESEER part-load performance	kW/kW	4.04	4.09	4.07	4.06	4.04	4.04	4.22	4.20	4.12	4.14	4.13
Nominal cooling capacity, standard unit**	kW	52.6	59.2	72.7	80.2	81.8	107.0	120.1	133.1	154.6	184.2	218.2
Power input	kW	15	17	20	23	26	30	35	40	48	52	62
EER	kW/kW	3.4	3.3	3.4	3.4	3.1	3.3	3.3	3.2	3.1	3.4	3.4
Noise levels												
Sound power level Lw(A) ***	dB(A)	80	81	81	81	87	87	84	84	84	90	90
Sound pressure level at 10 m Lp(A)****	dB(A)	49	49	49	49	55	55	52	52	52	58	58
Operating weight†												
Standard unit without hydronic module	kg	458	466	489	515	502	533	835	845	876	982	1046
Standard unit with hydronic module												
Single high-pressure pump	kg	488	496	519	545	531	562	867	877	912	1021	1085
Dual high-pressure pump	kg	514	522	545	571	557	588	912	922	960	1058	1122
Refrigerant												
Circuit A	kg	8.5	9.0	12.5	15.0	12.5	15.5	19.0	20.0	25.0	12.5	16.0
Circuit B	kg	-	-	-	-	-	-	-	-	-	12.5	16.0
Compressors												
Hermetic scroll compressors, 48.3 r/s												
Circuit A	2	2	2	2	2	2	2	3	3	3	2	2
Circuit B	-	-	-	-	-	-	-	-	-	-	2	2
Number of capacity stages	2	2	2	2	2	2	2	3	3	3	4	4
Minimum capacity	%	50	50	50	50	50	50	33	33	33	25	25
Control												
Pro-Dialog +												
Condensers												
Grooved copper tubes and aluminium fins												
Fans												
Axial Flying Bird IV with rotating shroud												
Quantity	1	1	1	1	1	1	1	2	2	2	2	2
Total air flow (at high speed)	l/s	3800	3800	3800	3800	5300	5300	7600	7600	7600	10600	10600
Speed	r/s	12	12	12	12	12	16	12	12	12	16	16
Evaporator												
Direct expansion, plate heat exchanger												
Water volume	l	2.6	3.0	3.3	4.0	4.8	5.6	8.7	9.9	11.3	12.4	14.7
Max. water-side operating pressure without hydronic module	kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Max. water-side operating pressure with hydronic module	kPa	400	400	400	400	400	400	400	400	400	400	400
Hydronic module (option)												
Single or dual pump (as selected)												
Pump, Victaulic screen filter, safety valve, expansion tank, purge valves (water and air), pressure sensors												
Expansion tank	l	12	12	12	12	12	12	35	35	35	35	35
Expansion tank pressure††	bar	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5
Max. water-side operating pressure with hydronic module	kPa	400	400	400	400	400	400	400	400	400	400	400
Water connections with/without hydronic module												
Victaulic												
Diameter	in	2	2	2	2	2	2	2	2	2	2	2
Outside diameter	mm	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3

* Standard Eurovent LCP/A/P/C/AC conditions in cooling mode: evaporator entering/leaving water temperature 12°C/7°C, outside air temperature 35°C, evaporator fouling factor 0.18 x 10⁻⁴ (m² K)/W

** Standard Eurovent LCP/A/P/C/CHF conditions in cooling mode: evaporator entering/leaving water temperature 23°C/18°C, outside air temperature 35°C, evaporator fouling factor 0.18 x 10⁻⁴ (m² K)/W

*** In accordance with ISO 9614-1 (10⁻¹² W)

**** For information, calculated from the sound power level Lw(A)

† Weight shown is a guideline only. To find out the unit refrigerant charge, please refer to the unit nameplate.

†† When delivered, the pre-inflation of the tank keeps the plated membrane in the upper part of the tank. To permit changing the water volume, change the inflation pressure to a pressure that is close to the static head of the system (see below), fill the system with water (purging the air) to a pressure value that is 10 to 20 kPa higher than the pressure in the tank.

Static head, m/Pressure, bar/Pressure, kPa 5 - 0,5 - 50/10 - 1 - 100/15 - 1,5 - 150/20 - 2 - 200/25 - 2,5 - 250/30 - 3 - 300/35 - 3,5 - 350

Nejdůležitější parametry:

Chladicí výkon za podmínek dle EUROVENT: 39,3 kW

El. příkon za podmínek dle EUROVENT: 13,7 kW

Hladina akustického výkonu: 80 dB(A)

31 - REVETEMENT DES ECHANGEURS A AIR
AIR HEAT EXCHANGER COATING
LUFT-WÄRMETAUSCHER BESCHICHTUNG

Std

1 - (FR) NUMERO DE SERIE
(EN) SERIAL NUMBER
(DE) SERIENNUMMER

M2014044450

2 - MODELE - MODEL
MODELLNUMMER

30RBS-039A0108-PE-

3 - VARIANTE VARIANT
VARIANTE

NGAC

4 - ANNEE DE FABRICATION ET DATE D'ESSAI
YEAR OF MANUFACTURING AND TEST DATE
HERSTELLUNGSAHR UND DATUM

26/09/2014

CE 0062

25 - FLUIDE PENDANT LE TRANSPORT
MEDIUM DURING THE TRANSPORT
FLÜSSIGKEIT WÄHREND DES TRANSPORTES

R410a 4.7 kg

5 - FLUIDE - MEDIUM
KÄLTEMITTEL

R410a

6 - GROUPE - GROUP
GRUPPE **2**

7 - CHARGE CIRCUIT A/B/C
MEDIUM CHARGE A/B/C
KREISLAUF A/B/C

4.70 / * kg

9 - FLUIDE D'INERTAGE
INERTING MEDIUM
NEUTRALISIERUNG-MEDIUM

23 AZOTE--NITROGEN--STICKSTOFF

21 - HAUTE PRESSION
HIGH PRESSURE
HOCHDRUCKHEIT

22 - BASSE PRESSION
LOW PRESSURE
NIEDERDRUCKHEIT

10 - PRESSION ADMISSIBLE MIN/MAX
ALLOWABLE PRESSURE MIN/MAX
ZULASSIGE MIN/MAX - DRUCKE

(PS) **-1.0 / 44.20 bar** **-1.0 / 28.00 bar**

11 - TEMPERATURE ADMISSIBLE MIN/MAX
ALLOWABLE TEMPERATURE MIN/MAX
ZULASSIGE MIN/MAX - TEMPERATUREN

(TS) **-20.0 / 68.0 °C** **-20.0 / 48.0 °C**

12 - PRESSION DE DECLENCHEMENT DES PRESSOSTATS
PRESSURE SWITCH SETTING
DRUCKSCHALTER-DRUCKWERT

44.2 bar *** bar**

13 - PRESSION DE DECLENCHEMENT DES SOUPAPES
SAFETY RELIEF VALVE SETTING
SICHERHEITSVENTIL - DRUCKWERT

*** bar** *** bar**

14 - PRESSION D'ESSAI D'ETANCHEITE IN L'UNITE
UNIT LEAK TEST PRESSURE
LECKTEST-DRUCK DES GERÄTS

17.0 bar

15 - TENSION
VOLTAGE
SPANNUNG

400 V **10 %** **10 %**

16 - PHASES
PHASES
PHASEN **3**

17 - FREQUENCE
FREQUENCY
FREQUENZ

~ 50 Hz

18 - C MAXIMALE
MAXIMUM AMP
MAXIMAL STROM

31.80 / * A

19 - PUISSANCE ABSORBEE MAX
MAX POWER INPUT
LEISTUNGSAUFNAHME

16.80 / * kW

20 - POIDS NET
NET WEIGHT
NETTOGEWICHT

429 kg

24 - PRESSION DE DECLENCHEMENT DES DISQUES EN SUPTURE
RIPTING DISC SETTING
EINSTELLUNG DER RISSDISKEN

*** bar** *** bar**



MANUFACTURED IN FRANCE BY
CARRIER SCS - 01120 MONTLUEL - FRANCE
AN AFFILIATED COMPANY OF CARRIER CORPORATION
FARMINGTON CT, USA