

BRGC
REMOTE GAS COOLERS

Powerful technology
delivering powerful savings



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BEIJER REF
Australia

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Overview

The SCM REF AU BRGC Remote Gas Cooler / Condenser range is ideal for TC02 commercial central plant refrigeration and air conditioning installations requiring low noise and improved energy savings.

The SCM REF AU BRGC Remote Gas Cooler / Condenser range features a specially optimised coil surface to fan ratio. This ensures even air distribution at reduced pressure drop across a wide fan speed range, which in turn reduces electricity consumption and overarching operating costs.

Features & Benefits

The SCM REF AU BRGC Remote Gas Cooler / Condenser range offers:

- 130 Bar Design Pressure
- Copper Connections and headers (CUFE2P)
- All fan motors are factory pre-wired back to junction box for ease of installation
- Floating coil technology
- Al/Mg Fin supplied as standard, with heavy duty coil coating available
- Crisp painted steel casing and end plates to enhance durability and extend service life

Vertical or horizontal air discharge achieved across all models of BRGC Remote Gas Cooler / Condenser Dry coolers.

The SCM REF AU BRGC Remote Gas Cooler / Condenser range options include:

- Heavy duty Electrocoat
- Adiabatic Sprays (Parts only)
- Overspray shield (for adiabatic spray application)

BRGC Remote Condensers - Nomenclature

BRGC	1	3	3	C	R	EC
	Number of Fans		Coil Block Variant/Module: Size C = 1750mm	Fan Type / Finish EC = Electronically Commutated		
	Number of Coils			Fin Type / Finish R = Al/Mg, Raw N = AL/Mg, Nano Coated (10,000 hrs)		
	Airflow Configuration (TBA at time of order) Absent - Shipped as Horizontal Airflow			Coil Block Variant/Module: Size C = 1750mm		
Manufacturer BRGC - Beijer Ref Wuxi		Number of Rows				

Transcritical

910MM AXIBLADE	TOTAL HEAT REJECTION CAPACITY (TRANSCRITICAL CONDITION)					
	CAPACITY KW BASED ON 36°C AMB, 38°C GAS OUTLET, 92BAR, 115°C DISCH GAS					
	R744		R744		R744	
MODEL NUMBER	MAX SPEED (980 RPM)		850 RPM		680 RPM	
	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)
BRGC113CREC	69.13	71	62.08	48	53	44
BRGC115CREC	88.52	59	78.81	65	67	36
BRGC123CREC	134.58	65	121.01	54	103	41
BRGC125CREC	173.09	54	154.21	44	131	33
BRGC133CREC	200.05	62	179.81	52	154	39
BRGC135CREC	259.55	83	231.26	68	196	51
BRGC143CREC	263.43	43	236.86	35	203	27
BRGC145CREC	344.67	84	307.14	69	260	51

Subcritical

910MM AXIBLADE	TOTAL HEAT REJECTION CAPACITY (SUBCRITICAL CONDITION)					
	CAPACITY KW BASED ON 20.5°C AMB, 28°C SCT, 2K SUBCOOLING, 80°C DISCH GAS					
	R744		R744		R744	
MODEL NUMBER	MAX SPEED (980 RPM)		850 RPM		680 RPM	
	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)
BRGC113CREC	56.13	132	50.24	113	42.79	87
BRGC115CREC	73.16	104	63.88	84	52.23	62
BRGC123CREC	110.15	124	98.55	106	82.41	81
BRGC125CREC	142.15	97	125.38	78	102.55	58
BRGC133CREC	161.46	121	146.76	103	123.76	79
BRGC135CREC	209.04	144	186.27	122	153.83	90
BRGC143CREC	217.82	90	192.88	75	164.85	57
BRGC145CREC	281.51	143	250.76	120	205.11	89

Transcritical

910MM AXIBLADE	TOTAL HEAT REJECTION CAPACITY (TRANSCRITICAL CONDITION)					
	CAPACITY KW BASED ON 30°C AMB, 35°C GAS OUTLET, 90BAR, 110°C DISCH GAS					
	R744		R744		R744	
MODEL NUMBER	MAX SPEED (980 RPM)		850 RPM		680 RPM	
	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)
BRGC113CREC	109.03	152	97.94	126	83.70	96
BRGC115CREC	143.02	134	127.44	109	107.90	82
BRGC123CREC	212.20	140	190.80	116	163.25	88
BRGC125CREC	279.58	124	249.36	101	211.37	76
BRGC133CREC	315.26	134	283.52	111	242.69	84
BRGC135CREC	418.74	189	373.50	155	316.61	116
BRGC143CREC	415.61	92	373.90	76	320.21	58
BRGC145CREC	556.05	190	496.05	156	420.59	117

Subcritical

910MM AXIBLADE	TOTAL HEAT REJECTION CAPACITY (SUBCRITICAL CONDITION)					
	CAPACITY KW BASED ON 5°C AMB, 15°C SCT, 2K SUBCOOLING, 60°C DISCH GAS					
	R744		R744		R744	
MODEL NUMBER	MAX SPEED (980 RPM)		850 RPM		680 RPM	
	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)	CAPACITY, kW	PD (kPa)
BRGC113CREC	90.26	322	81.26	267	68.94	199
BRGC115CREC	118.99	145	105.30	111	87.20	75
BRGC123CREC	178.22	306	158.58	253	134.16	188
BRGC125CREC	234.08	134	207.25	103	167.02	65
BRGC133CREC	263.74	300	236.66	248	199.99	184
BRGC135CREC	349.25	174	313.39	165	257.57	112
BRGC143CREC	350.90	236	312.11	192	263.32	139
BRGC145CREC	464.25	207	407.82	163	331.29	99

Technical Data

STANDARD FAN	MOTOR DATA (415V/3PH EC)		FAN QTY	UNIT DATA		APPROX. WEIGHT KG		COIL DATA			SHIPPING VOLUME
	910MM STD							INTERNAL COIL VOL	CONN'S ODS (MM)		
MODEL NUMBER	MAX AMPS/ PH	MAX INPUT WATTS		MAX AMPS/ PH	MAX INPUT WATTS	UNPACKED	PACKED	dm3	GAS	LIQUID	m3
BRGC113CREC	3.9	2550	1	3.9	2550	373	491	11.93	28.6	28.6	5.4
BRGC115CREC	3.9	2550	1	3.9	2550	400	518	19.88	28.6	28.6	5.4
BRGC123CREC	7.8	5100	2	7.8	5100	590	880	23.86	28.6	28.6	10.2
BRGC125CREC	7.8	5100	2	7.8	5100	715	925	39.77	28.6	28.6	10.2
BRGC133CREC	11.7	7650	3	11.7	7650	820	1250	35.79	34.9	34.9	14.6
BRGC135CREC	11.7	7650	3	11.7	7650	1005	1330	59.66	34.9	34.9	14.6
BRGC143CREC	15.6	10200	4	15.6	10200	1085	1560	47.73	34.9	34.9	19.1
BRGC145CREC	15.6	10200	4	15.6	10200	1335	1810	79.52	34.9	34.9	19.1

910MM AXIBLADE	AIRFLOW*			EST INPUT POWER		
	m3/HR			TOTAL WATTS		
MODEL NUMBER	980 RPM	850 RPM	680 RPM	980 RPM	850 RPM	680 RPM
BRGC113CREC	29620	25400	20358	2025	1355	720
BRGC115CREC	27450	23520	18879	2200	1470	780
BRGC123CREC	59240	50800	40715	4050	2710	1440
BRGC125CREC	54900	47040	37757	4400	2940	1560
BRGC133CREC	88860	76200	61073	6075	4065	2160
BRGC135CREC	82350	70560	56636	6600	4410	2340
BRGC143CREC	118480	101600	81430	8100	5420	2880
BRGC145CREC	109800	94080	75514	8800	5880	3120

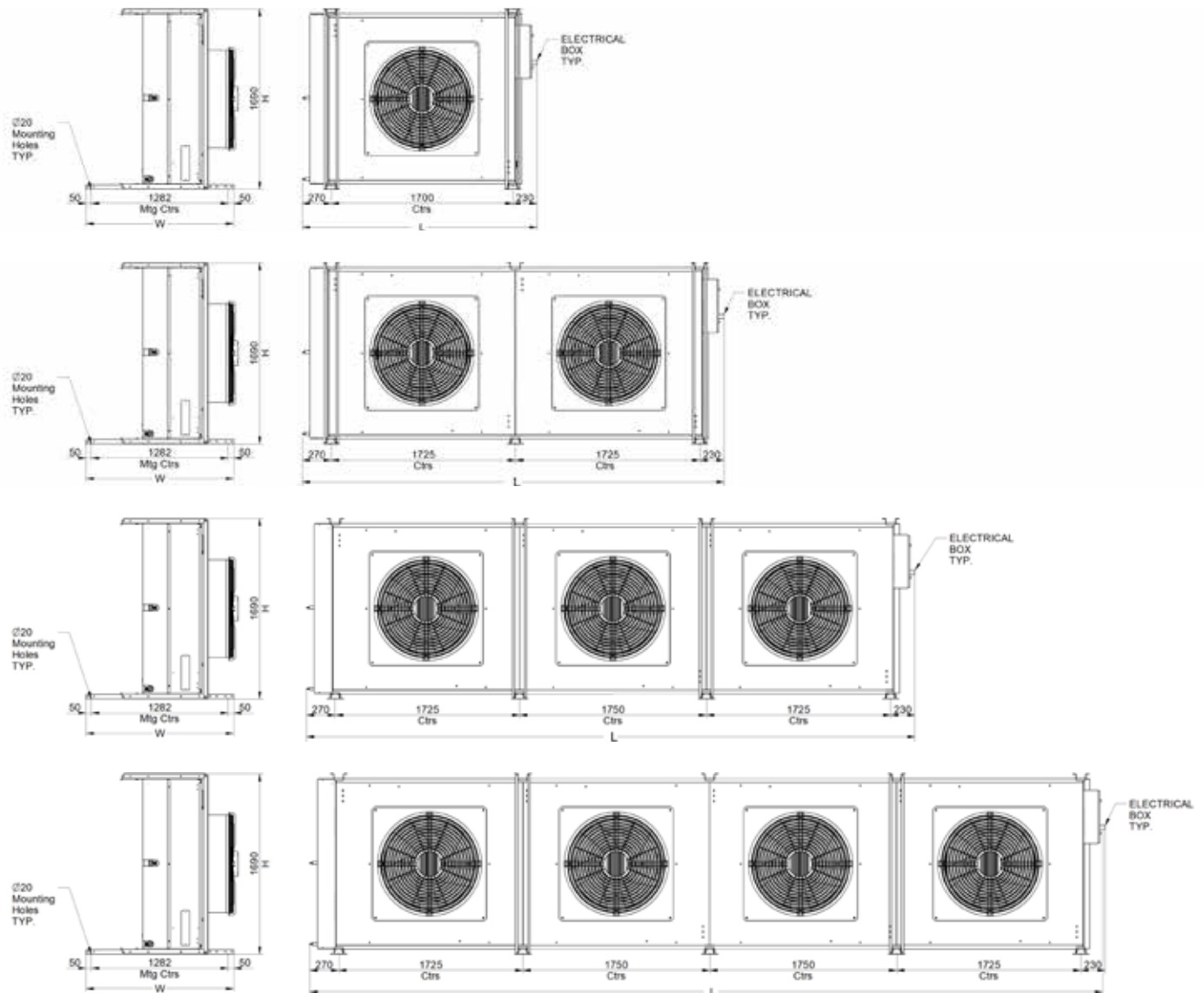
*Airflow and estimated input power from test results and fan manufacturers data.

Sound Data

910MM AXIBLADE	SPEED RPM	OCTAVE BAND LINEAR SOUND POWER SPECTRUM								POWER	PRESSURE
		LwL (dB)								LwA	LpA(3)*
		100	125	250	500	1000	2000	4000	8000	DBA	DBA
SINGLE COIL MODELS										LOC'N 1	LOC'N 1
BRGC113CREC	980	81.4	83.2	76.2	80.3	77.4	70.9	64.5	61.1	85.1	65.1
	850	80.5	82.2	75.0	76.0	72.3	65.9	59.5	56.8	82.1	62.1
	680	79.2	80.8	73.4	70.1	65.3	59.0	52.6	50.8	76.5	56.5
BRGC115CREC	980	83.3	85.1	78.0	82.2	79.2	72.8	66.4	63.0	86.6	66.6
	850	82.1	83.8	76.6	77.6	73.9	67.5	61.1	58.4	83.7	63.7
	680	80.4	82.0	74.6	71.3	66.5	60.2	53.8	52.0	77.7	57.7
BRGC123CREC	980	84.4	86.2	79.2	83.3	80.4	73.9	67.5	64.1	88.1	68.1
	850	83.5	85.2	78.0	79.0	75.3	68.9	62.5	59.8	85.1	65.1
	680	82.2	83.8	76.4	73.1	68.3	62.0	55.6	53.8	79.5	59.5
BRGC125CREC	980	86.3	88.1	81.0	85.2	82.2	75.8	69.4	66.0	89.6	69.6
	850	85.1	86.8	79.6	80.6	76.9	70.5	64.1	61.4	86.7	66.7
	680	83.4	85.0	77.6	74.3	69.5	63.2	56.8	55.0	80.7	60.7
BRGC133CREC	980	86.2	88.0	81.0	85.1	82.2	75.7	69.3	65.9	89.9	69.9
	850	85.3	87.0	79.8	80.8	77.1	70.7	64.3	61.6	86.9	66.9
	680	84.0	85.6	78.2	74.9	70.1	63.8	57.4	55.6	81.3	61.3
BRGC135CREC	980	88.1	89.9	82.8	87.0	84.0	77.6	71.2	67.8	91.4	71.4
	850	86.9	88.6	81.4	82.4	78.7	72.3	65.9	63.2	88.5	68.5
	680	85.2	86.8	79.4	76.1	71.3	65.0	58.6	56.8	82.5	62.5
BRGC143CREC	980	87.4	89.2	82.2	86.3	83.4	76.9	70.5	67.1	91.1	71.1
	850	86.5	88.2	81.0	82.0	78.3	71.9	65.5	62.8	88.1	68.1
	680	85.2	86.8	79.4	76.1	71.3	65.0	58.6	56.8	82.5	62.5
BRGC145CREC	980	89.3	91.1	84.0	88.2	85.2	78.8	72.4	69.0	92.6	72.6
	850	88.1	89.8	82.6	83.6	79.9	73.5	67.1	64.4	89.7	69.7
	680	86.4	88.0	80.6	77.3	72.5	66.2	59.8	58.0	83.7	63.7

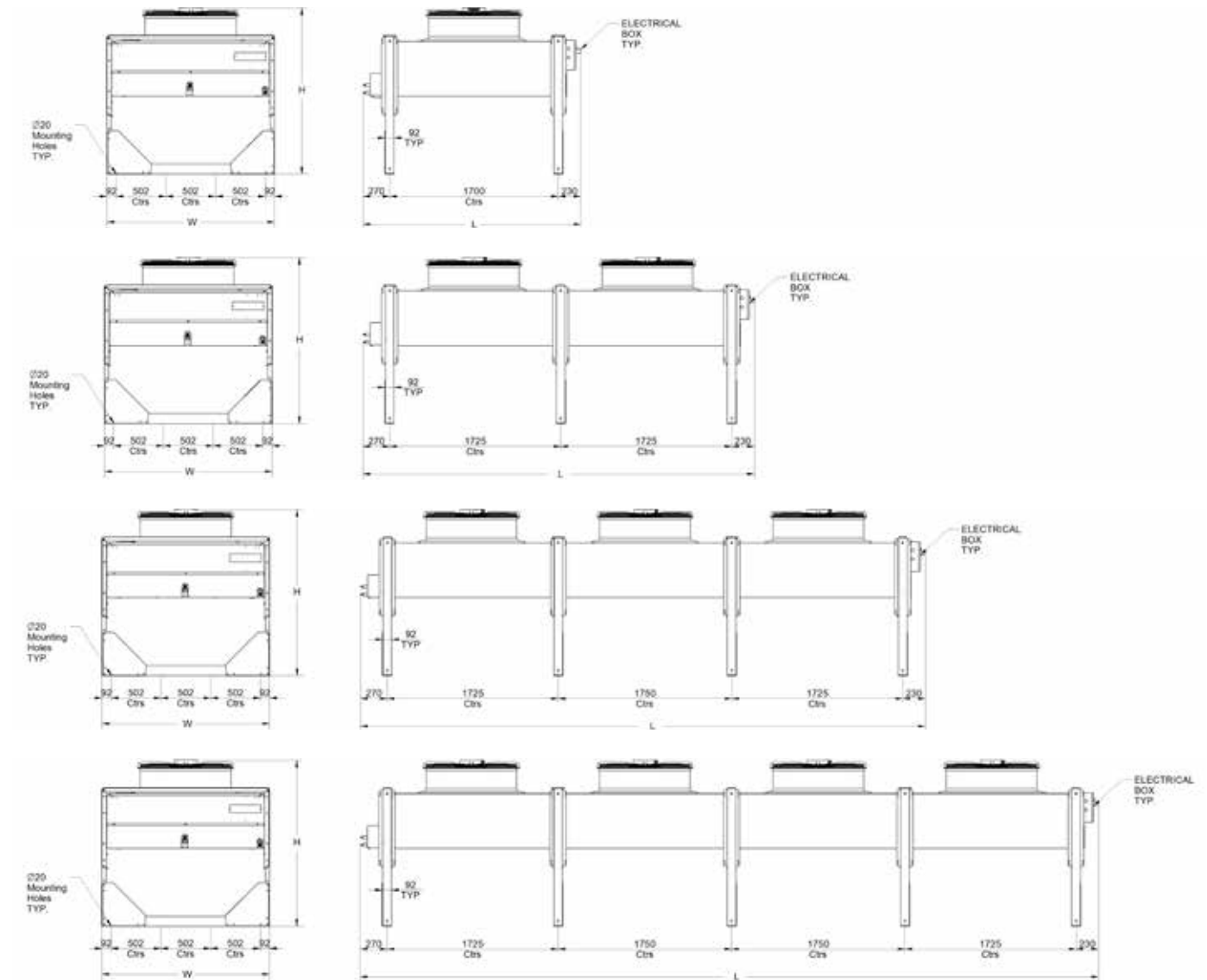
For rating details see section below.

Dimensional Data



	NO. OF FANS	ROWS	CONNECTIONS (in)		W (mm)	H (mm)	L (mm)
MODEL NUMBER			LIQUID	SUCTION			
BRGC113CREC	1	3	1-1/8	1-1/8	1382	1690	2200
BRGC115CREC	1	5	1-1/8	1-1/8	1382	1690	2200
BRGC123CREC	2	3	1-1/8	1-1/8	1382	1690	3950
BRGC125CREC	2	5	1-1/8	1-1/8	1382	1690	3950
BRGC133CREC	3	3	1-3/8	1-3/8	1382	1690	5700
BRGC135CREC	3	5	1-3/8	1-3/8	1382	1690	5700
BRGC143CREC	4	3	1-3/8	1-3/8	1382	1690	7450
BRGC145CREC	4	5	1-3/8	1-3/8	1382	1690	7450

Dimensional Data



MODEL NUMBER	NO. OF FANS	ROWS	CONNECTIONS (in)		W (mm)	H (mm)	L (mm)
			LIQUID	SUCTION			
BRGC113CREC	1	3	1-1/8	1-1/8	1690	1905/1535	2200
BRGC115CREC	1	5	1-1/8	1-1/8	1690	1905/1535	2200
BRGC123CREC	2	3	1-1/8	1-1/8	1690	1905/1535	3950
BRGC125CREC	2	5	1-1/8	1-1/8	1690	1905/1535	3950
BRGC133CREC	3	3	1-3/8	1-3/8	1690	1905/1535	5700
BRGC135CREC	3	5	1-3/8	1-3/8	1690	1905/1535	5700
BRGC143CREC	4	3	1-3/8	1-3/8	1690	1905/1535	7450
BRGC145CREC	4	5	1-3/8	1-3/8	1690	1905/1535	7450

Note: H (max) is used for SKIRT.

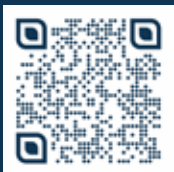
NOTES

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A world map in a dark blue color. Numerous white location pins are placed across the map, primarily concentrated in Europe, North America, and Australia. One pin in Europe is labeled with the 'SCM' logo.

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