

# MAXI BOREAL

*The MAXIBOREAL split system line covers the 5 most common commercial refrigeration applications from cutting and preparation halls to positive and negative cooling rooms up to 400 m<sup>3</sup>.*

## Description

### PRESENTATION OF THE LINE

MAXIBOREAL is a split system specifically designed to offer you maximum comfort: accessibility to components, low noise option, oversized condenser block for hot countries...

Total control of production and numerous factory inspections ensure optimum operating reliability.

The 5 pre-selected applications are as follows:

- Double-flow unit cooler: rooms at +8 °C / DT 10K.
- Cubic unit cooler: rooms at +6 °C / DT 6K, +2 °C / DT 8K, 0 °C / DT 8K and -20 °C / DT 7K,

The fin spacing and defrost methods are different for each application.

### CONDENSING UNIT

- The condensing unit is housed for outdoor installation. Three compressor technologies are available: hermetic pistons, semi-hermetic pistons and Scroll. Each compressor is equipped with an oil sight glass, case heating element, suction and delivery valves.
- LP regulation and HP safety are provided by factory-set pressure switches.
- The vertical condenser is equipped with 1 to 4 fans depending on the model with different rotation speeds to suit various environmental conditions.
- As standard, condensing pressure regulation is provided with variation of the fan speed or with the pressure switches depending on the model.
- The liquid receiver is equipped with an outlet valve to isolate the liquid line composed of a filter drier cartridge, a sight glass and a manual shut-off valve.
- The electrical enclosure is incorporated into the casing and the main circuit-breaker is protected in a case to avoid any damage during transport.
- The unit is pre-charged with R404A refrigerant.

### UNIT COOLERS

- Dual discharge evaporator, low noise level or cubic depending on the applications, with factory-fitted expansion device and solenoid valve. For further details, consult our commercial evaporators brochure.

### CONTROL

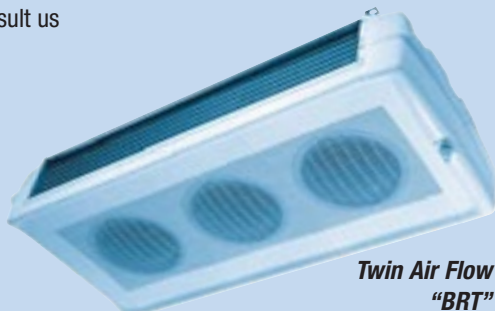
- Electronic regulation.
- Defrost control (air or electric).
- Lighting control.
- Display and transfer of alarms.
- An additional programmable contact (door open, person inside enclosure safety switch...).
- Built-in forced operation for fast cooling or reezing.

## Optional features

- COM** Phone communicating module
- VFA** Shut-off valve + suction filter
- CAC** Additional crankcase heater:  
H and Sc models only
- GPC** Protection grid for the condenser

### OTHER OPTIONS

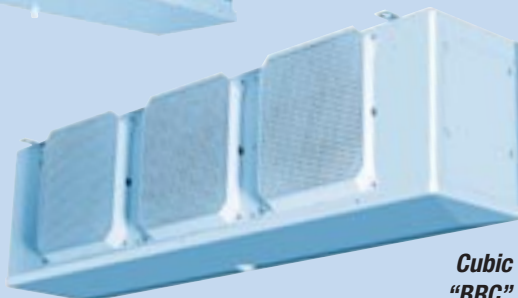
Please consult us



Twin Air Flow  
"BRT"



Cubic  
"BRB"



Cubic  
"BRC"

**HK**®  
**REFRIGERATION**  
www.hkrefrigeration.com



V. 2000

# Split Systems

room  
+8°C

3.63  
mm

DT1  
10K  
SC1

R404A

## TECHNICAL DATA

## STANDARD SPLIT SYSTEMS

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +32°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
MAXI P18A	T38F6	3.68	-	-	●	○	○	○
MAXI P23A	T52F6	4.28	4.32	4.04	●	○	○	○
MAXI P26A	T52F6	5.28	5.41	5.33	●	○	○	○
MAXI P33A	T69F6	6.88	6.96	6.59	●	○	○	○
MAXI P41A	T105F6	9.15	8.69	9.09	●	○	○	○
MAXI P53A	T129F6	10.92	11.06	10.70	●	○	○	○
MAXI P66A	T158F6	14.16	13.84	13.08	●	○	○	○
MAXI P83A	T158F6	16.00	16.46	14.74	●	○	○	○
MAXI P104A	2 x T105F6	20.82	-	21.02	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

## TECHNICAL DATA

## SPLIT SYSTEMS WITH OVERSIZED CONDENSER

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +40°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
MAXI P18AS	T38F6	3.34	-	-	●	○	○	○
MAXI P23AS	T52F6	3.99	4.07	3.74	●	○	○	○
MAXI P26AS	T52F6	4.78	4.96	4.92	●	○	○	○
MAXI P33AS	T69F6	6.32	6.42	6.09	●	○	○	○
MAXI P41AS	T105F6	7.54	7.34	7.77	●	○	○	○
MAXI P53AS	T129F6	10.38	10.57	10.19	●	○	○	○
MAXI P66AS	T158F6	12.22	12.07	11.48	●	○	○	○
MAXI P83AS	T158F6	14.69	15.32	13.65	●	○	○	○
MAXI P104AS	2 x T105F6	18.65	-	19.21	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

## TECHNICAL DATA

## LOW NOISE SPLIT SYSTEMS

Models		Capacity	Accoustic	Capacity	Accoustic	(●) kit, (○) option			
Ambient temperature +32°C		Sc (1)	LP at 10 m	H (2)	LP at 10 m	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	dB(A) (3)	kW	dB(A) (3)				
MAXI P18ALN	T38F6	-	-	3.68	34	●	○	○	○
MAXI P23ALN	T52F6	4.04	24	4.28	33	●	○	○	○
MAXI P26ALN	T52F6	5.49	24	5.48	26	●	○	○	○
MAXI P33ALN	T69F6	6.59	34	6.88	36	●	○	○	○
MAXI P41ALN	T105F6	9.05	36	9.11	43	●	○	○	○
MAXI P53ALN	T129F6	11.09	36	11.39	43	●	○	○	○
MAXI P66ALN	T158F6	12.42	37	13.25	43	●	○	○	○
MAXI P83ALN	T158F6	14.77	35	16.06	41	●	○	○	○
MAXI P104ALN	2 x T105F6	21.11	42	20.93	49	●	○	○	○

(1) Sc : scroll compressor  
(2) H : hermetic compressor

(3) Sound pressure level in dB(A) measured at 10 meters, in free field, on a reflective plane in accordance with EN 13487 draft (parallelepipedic surface reference).

\* Condensing units: see technical data pages MAXI.

\* Unit coolers: T... = BRT (see technical data pages BRT).  
C... = BRC (see technical data pages BRC).  
B... = BRB (see technical data pages BRB).

For any further information about the technical data of the MAXIBOREAL range, please use our CUSOFT software.

**R404A****DT1  
6K  
SC4****4.23  
mm****room  
+6°C**

# Split Systems

## TECHNICAL DATA

## STANDARD SPLIT SYSTEMS

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +32°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
<b>MAXI P18A</b>	<b>C42F8</b>	3.91	-	-	●	○	○	○
<b>MAXI P23A</b>	<b>C42F8</b>	4.55	4.59	4.30	●	○	○	○
<b>MAXI P26A</b>	<b>C52F8</b>	5.65	5.76	5.67	●	○	○	○
<b>MAXI P33A</b>	<b>C63F8</b>	7.43	7.43	7.03	●	○	○	○
<b>MAXI P41A</b>	<b>C94F8</b>	9.85	9.28	9.69	●	○	○	○
<b>MAXI P53A</b>	<b>C111F8</b>	11.62	11.77	11.38	●	○	○	○
<b>MAXI P66A</b>	<b>B158F8</b>	15.05	14.73	13.93	●	○	○	○
<b>MAXI P83A</b>	<b>B199F8</b>	17.05	17.49	15.67	●	○	○	○
<b>MAXI P104A</b>	<b>B235F8</b>	22.15	-	22.28	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

## TECHNICAL DATA

## SPLIT SYSTEMS WITH OVERSIZED CONDENSER

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +40°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
<b>MAXI P18AS</b>	<b>C42F8</b>	3.57	-	-	●	○	○	○
<b>MAXI P23AS</b>	<b>C42F8</b>	4.27	4.36	4.01	●	○	○	○
<b>MAXI P26AS</b>	<b>C52F8</b>	5.15	5.31	5.26	●	○	○	○
<b>MAXI P33AS</b>	<b>C63F8</b>	6.79	6.88	6.53	●	○	○	○
<b>MAXI P41AS</b>	<b>C94F8</b>	8.11	7.87	8.29	●	○	○	○
<b>MAXI P53AS</b>	<b>C111F8</b>	11.13	11.31	10.88	●	○	○	○
<b>MAXI P66AS</b>	<b>B158F8</b>	13.07	12.87	12.25	●	○	○	○
<b>MAXI P83AS</b>	<b>B199F8</b>	15.76	16.38	16.84	●	○	○	○
<b>MAXI P104AS</b>	<b>B235F8</b>	19.88	-	23.47	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

## TECHNICAL DATA

## LOW NOISE SPLIT SYSTEMS

Models		Capacity	Accoustic	Capacity	Accoustic	(●) kit, (○) option			
Ambient temperature +32°C		Sc (1)	LP at 10 m	H (2)	LP at 10 m	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	dB(A) (3)	kW	dB(A) (3)				
<b>MAXI P18ALN</b>	<b>C42F8</b>	-	-	3.91	34	●	○	○	○
<b>MAXI P23ALN</b>	<b>C42F8</b>	4.30	24	4.55	33	●	○	○	○
<b>MAXI P26ALN</b>	<b>C52F8</b>	5.85	24	5.88	26	●	○	○	○
<b>MAXI P33ALN</b>	<b>C63F8</b>	7.03	34	7.35	36	●	○	○	○
<b>MAXI P41ALN</b>	<b>C94F8</b>	9.66	36	9.80	43	●	○	○	○
<b>MAXI P53ALN</b>	<b>C111F8</b>	11.79	36	12.16	43	●	○	○	○
<b>MAXI P66ALN</b>	<b>B158F8</b>	13.19	37	14.02	43	●	○	○	○
<b>MAXI P83ALN</b>	<b>B199F8</b>	15.69	35	17.11	41	●	○	○	○
<b>MAXI P104ALN</b>	<b>B235F8</b>	22.37	42	22.25	49	●	○	○	○

(1) Sc : scroll compressor  
(2) H : hermetic compressor

(3) Sound pressure level in dB(A) measured at 10 meters, in free field, on a reflective plane in accordance with EN 13487 draft (parallelepipedic surface reference).

\* **Condensing units:** see technical data pages **MAXI**.\* **Unit coolers:** T... = **BRT** (see technical data pages **BRT**).  
C... = **BRC** (see technical data pages **BRC**).  
B... = **BRB** (see technical data pages **BRB**).For any further information about the technical data of the **MAXIBOREAL** range, please use our **CUSOFT** software.

# Split Systems

room  
+2°C

6.35  
mm

DT1  
8K  
SC2

R404A

## TECHNICAL DATA

## STANDARD SPLIT SYSTEMS

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +32°C			H (1)	SH (2)	Sc (3)			
Condensing units*	Unit Coolers*	kW	kW	kW	COM	VFA	CAC	GPC
MAXI P18A	C30S8	3.22	-	-	●	○	○	○
MAXI P23A	C34S8	3.75	3.79	3.55	●	○	○	○
MAXI P26A	C41S8	4.56	4.75	4.68	●	○	○	○
MAXI P33A	C53S8	5.96	6.08	5.78	●	○	○	○
MAXI P41A	C62S8	7.85	7.54	7.95	●	○	○	○
MAXI P53A	C98S8	9.50	9.69	9.40	●	○	○	○
MAXI P66A	C98S8	12.41	12.16	11.48	●	○	○	○
MAXI P83A	C113S8	13.96	14.48	12.99	●	○	○	○
MAXI P104A	B155S8	18.26	-	18.58	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

## TECHNICAL DATA

## SPLIT SYSTEMS WITH OVERSIZED CONDENSER

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +43°C			H (1)	SH (2)	Sc (3)			
Condensing units*	Unit Coolers*	kW	kW	kW	COM	VFA	CAC	GPC
MAXI P18AS	C30S8	2.64	-	-	●	○	○	○
MAXI P23AS	C34S8	3.17	3.29	2.97	●	○	○	○
MAXI P26AS	C41S8	3.77	4.00	4.00	●	○	○	○
MAXI P33AS	C53S8	5.05	5.17	4.96	●	○	○	○
MAXI P41AS	C62S8	5.92	5.93	6.47	●	○	○	○
MAXI P53AS	C98S8	8.27	8.57	8.31	●	○	○	○
MAXI P66AS	C98S8	9.87	10.07	9.37	●	○	○	○
MAXI P83AS	C113S8	11.63	12.47	13.78	●	○	○	○
MAXI P104AS	B155S8	15.01	-	19.48	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

## TECHNICAL DATA

## LOW NOISE SPLIT SYSTEMS

Models		Capacity	Accoustic	Capacity	Accoustic	(●) kit, (○) option			
Ambient temperature +32°C			LP at 10 m	H (2)	LP at 10 m				
Condensing units*	Unit Coolers*	Sc (1)	dB(A) (3)	kW	dB(A) (3)	COM	VFA	CAC	GPC
MAXI P18ALN	C30S8	-	-	3.22	34	●	○	○	○
MAXI P23ALN	C34S8	3.55	24	3.75	33	●	○	○	○
MAXI P26ALN	C41S8	4.81	24	4.72	26	●	○	○	○
MAXI P33ALN	C53S8	5.78	34	5.97	36	●	○	○	○
MAXI P41ALN	C62S8	7.93	36	7.83	43	●	○	○	○
MAXI P53ALN	C98S8	9.72	36	9.90	43	●	○	○	○
MAXI P66ALN	C98S8	10.94	37	11.65	43	●	○	○	○
MAXI P83ALN	C113S8	13.00	35	13.98	41	●	○	○	○
MAXI P104ALN	B155S8	18.67	42	18.33	49	●	○	○	○

(1) Sc : scroll compressor  
(2) H : hermetic compressor

(3) Sound pressure level in dB(A) measured at 10 meters, in free field, on a reflective plane in accordance with EN 13487 draft (parallelepipedic surface reference).

\* Condensing units: see technical data pages MAXI.

\* Unit coolers: T... = BRT (see technical data pages BRT).  
C... = BRC (see technical data pages BRC).  
B... = BRB (see technical data pages BRB).

For any further information about the technical data of the MAXIBOREAL range, please use our CUSOFT software.

**R404A****DT1  
8K  
SC2****4.23  
mm****room  
0°C**

# Split Systems

## With electric defrost

### TECHNICAL DATA

### STANDARD SPLIT SYSTEMS

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +32°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
<b>MAXI P18A</b>	<b>C27F8</b>	3.00	-	-	●	○	○	○
<b>MAXI P23A</b>	<b>C27F8</b>	3.50	3.54	3.31	●	○	○	○
<b>MAXI P26A</b>	<b>C33F8</b>	4.22	4.43	4.38	●	○	○	○
<b>MAXI P33A</b>	<b>C52F8</b>	5.53	5.66	5.39	●	○	○	○
<b>MAXI P41A</b>	<b>C63F8</b>	7.21	7.01	7.42	●	○	○	○
<b>MAXI P53A</b>	<b>C94F8</b>	8.22	9.04	8.81	●	○	○	○
<b>MAXI P66A</b>	<b>C94F8</b>	11.56	11.36	10.72	●	○	○	○
<b>MAXI P83A</b>	<b>C111F8</b>	12.96	13.55	12.16	●	○	○	○
<b>MAXI P104A</b>	<b>B158F8</b>	16.99	-	17.41	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

### TECHNICAL DATA

### SPLIT SYSTEMS WITH OVERSIZED CONDENSER

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +43°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
<b>MAXI P18AS</b>	<b>C27F8</b>	2.44	-	-	●	○	○	○
<b>MAXI P23AS</b>	<b>C27F8</b>	2.93	3.05	2.75	●	○	○	○
<b>MAXI P26AS</b>	<b>C33F8</b>	3.46	3.70	3.72	●	○	○	○
<b>MAXI P33AS</b>	<b>C52F8</b>	4.65	4.78	4.61	●	○	○	○
<b>MAXI P41AS</b>	<b>C63F8</b>	5.44	5.49	5.88	●	○	○	○
<b>MAXI P53AS</b>	<b>C94F8</b>	7.63	7.94	7.73	●	○	○	○
<b>MAXI P66AS</b>	<b>C94F8</b>	9.16	9.15	8.73	●	○	○	○
<b>MAXI P83AS</b>	<b>C111F8</b>	10.73	11.57	12.87	●	○	○	○
<b>MAXI P104AS</b>	<b>B158F8</b>	13.93	-	18.18	●	○	○	○

(1) H : hermetic compressor

(2) SH : semi-hermetic compressor

(3) Sc : scroll compressor

### TECHNICAL DATA

### LOW NOISE SPLIT SYSTEMS

Models		Capacity	Accoustic	Capacity	Accoustic	(●) kit, (○) option			
Ambient temperature +32°C		Sc (1)	LP at 10 m	H (2)	LP at 10 m	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	dB(A) (3)	kW	dB(A) (3)				
<b>MAXI P18ALN</b>	<b>C27F8</b>	-	-	3.00	34	●	○	○	○
<b>MAXI P23ALN</b>	<b>C27F8</b>	3.31	24	3.50	33	●	○	○	○
<b>MAXI P26ALN</b>	<b>C33F8</b>	4.48	24	4.35	26	●	○	○	○
<b>MAXI P33ALN</b>	<b>C52F8</b>	5.39	34	5.53	36	●	○	○	○
<b>MAXI P41ALN</b>	<b>C63F8</b>	7.40	36	7.19	43	●	○	○	○
<b>MAXI P53ALN</b>	<b>C94F8</b>	9.09	36	9.17	43	●	○	○	○
<b>MAXI P66ALN</b>	<b>C94F8</b>	10.26	37	10.90	43	●	○	○	○
<b>MAXI P83ALN</b>	<b>C111F8</b>	12.18	35	13.01	41	●	○	○	○
<b>MAXI P104ALN</b>	<b>B158F8</b>	17.50	42	17.09	49	●	○	○	○

(1) Sc : scroll compressor  
(2) H : hermetic compressor

(3) Sound pressure level in dB(A) measured at 10 meters, in free field, on a reflective plane in accordance with EN 13487 draft (parallelepipedic surface reference).

\* **Condensing units:** see technical data pages **MAXI**.

\* **Unit coolers:** T... = **BRT** (see technical data pages **BRT**).  
C... = **BRC** (see technical data pages **BRC**).  
B... = **BRB** (see technical data pages **BRB**).

For any further information about the technical data of the **MAXIBOREAL** range, please use our **CUSOFT** software.

# Split Systems

room  
-20°C

6.35  
mm

DT1  
7K  
SC3

R404A

## With electric defrost

### TECHNICAL DATA

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +32°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
MAXI N24A	C25D7	1.97	2.41	-	●	○	○	○
MAXI N34A	C29D7	2.93	3.47	2.47	●	○	○	○
MAXI N42A	C46D7	4.26	4.42	4.18	●	○	○	○
MAXI N73A	C81D7	6.11	6.50	6.15	●	○	○	○
MAXI N84A	C81D7	8.28	-	8.40	●	○	○	○

### STANDARD SPLIT SYSTEMS

### TECHNICAL DATA

Models		Capacity	Capacity	Capacity	(●) kit, (○) option			
Ambient temperature +43°C		H (1)	SH (2)	Sc (3)	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	kW	kW				
MAXI N24AS	C25D7	1.54	1.93	-	●	○	○	○
MAXI N34AS	C29D7	2.26	2.80	2.08	●	○	○	○
MAXI N42AS	C46D7	3.37	3.59	3.52	●	○	○	○
MAXI N73AS	C81D7	4.85	5.33	5.22	●	○	○	○
MAXI N84AS	C81D7	6.13	-	6.83	●	○	○	○

### SPLIT SYSTEMS WITH OVERSIZED CONDENSER

### TECHNICAL DATA

Models		Capacity	Accoustic	Capacity	Accoustic	(●) kit, (○) option			
Ambient temperature +32°C		Sc (1)	LP at 10 m	H (2)	LP at 10 m	COM	VFA	CAC	GPC
Condensing units*	Unit Coolers*	kW	dB(A) (3)	kW	dB(A) (3)				
MAXI N24ALN	C25D7	-	-	1.98	34	●	○	○	○
MAXI N34ALN	C29D7	2.51	25	3.05	39	●	○	○	○
MAXI N42ALN	C46D7	4.18	30	4.26	37	●	○	○	○
MAXI N73ALN	C81D7	6.14	37	6.09	47	●	○	○	○
MAXI N84ALN	C81D7	7.97	38	7.73	47	●	○	○	○

### LOW NOISE SPLIT SYSTEMS

(1) Sc : scroll compressor  
(2) H : hermetic compressor

(3) Sound pressure level in dB(A) measured at 10 meters, in free field, on a reflective plane in accordance with EN 13487 draft (parallelepipedic surface reference).

\* Condensing units: see technical data pages MAXI.

\* Unit coolers: C... = BRC (see technical data pages BRC).

For any further information about the technical data of the MAXIBOREAL range, please use our CUSOFT software.

### DIMENSIONS

### MASTERLOG III

