misa
epta refrigeration

FREEBLOCK
TN R404a

ENERGY EFFICIENCY
DATA SHEETS

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Model	FREEBLOCK - FB 3G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,07	kW
Nominal absorbed power	D_A	0,75	kW
Nominal COP	COP_A	1,42	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,19	kW
Nominal absorbed power	D_B	0,73	kW
Declared COP	COP_B	1,64	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	0,91	kW
Nominal absorbed power	D_3	0,81	kW
Declared COP	COP_3	1,13	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 7G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,00	kW
Nominal absorbed power	D_A	0,77	kW
Nominal COP	COP_A	1,30	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,11	kW
Nominal absorbed power	D_B	0,75	kW
Declared COP	COP_B	1,48	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	0,86	kW
Nominal absorbed power	D_3	0,82	kW
Declared COP	COP_3	1,04	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 13G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,30	kW
Nominal absorbed power	D_A	0,91	kW
Nominal COP	COP_A	1,43	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,46	kW
Nominal absorbed power	D_B	0,88	kW
Declared COP	COP_B	1,67	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,05	kW
Nominal absorbed power	D_3	0,97	kW
Declared COP	COP_3	1,08	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 16G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,87	kW
Nominal absorbed power	D_A	1,10	kW
Nominal COP	COP_A	1,70	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,06	kW
Nominal absorbed power	D_B	1,07	kW
Declared COP	COP_B	1,92	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	1,55	kW
Nominal absorbed power	D_3	1,14	kW
Declared COP	COP_3	1,36	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 20G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,41	kW
Nominal absorbed power	D_A	1,25	kW
Nominal COP	COP_A	1,93	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	2,66	kW
Nominal absorbed power	D_B	1,22	kW
Declared COP	COP_B	2,18	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,02	kW
Nominal absorbed power	D_3	1,30	kW
Declared COP	COP_3	1,55	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 26G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	2,99	kW
Nominal absorbed power	D_A	1,49	kW
Nominal COP	COP_A	2,01	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	3,32	kW
Nominal absorbed power	D_B	1,45	kW
Declared COP	COP_B	2,29	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,46	kW
Nominal absorbed power	D_3	1,54	kW
Declared COP	COP_3	1,60	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 50G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	3,62	kW
Nominal absorbed power	D_A	1,85	kW
Nominal COP	COP_A	1,96	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	4,04	kW
Nominal absorbed power	D_B	1,60	kW
Declared COP	COP_B	2,53	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	2,91	kW
Nominal absorbed power	D_3	2,34	kW
Declared COP	COP_3	1,24	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB 70G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	4,28	kW
Nominal absorbed power	D_A	2,13	kW
Nominal COP	COP_A	2,01	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	4,69	kW
Nominal absorbed power	D_B	1,88	kW
Declared COP	COP_B	2,50	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	3,58	kW
Nominal absorbed power	D_3	2,62	kW
Declared COP	COP_3	1,37	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB SLIM 4G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,01	kW
Nominal absorbed power	D_A	0,77	kW
Nominal COP	COP_A	1,31	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,11	kW
Nominal absorbed power	D_B	0,74	kW
Declared COP	COP_B	1,50	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	0,86	kW
Nominal absorbed power	D_3	0,82	kW
Declared COP	COP_3	1,05	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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Model	FREEBLOCK - FB SLIM 7G
Refrigerating Fluid	R404A

Element	Symbol	Value	Unit
Evaporation temperature	*t*	-10°C	°C
Annual consumption of electrical energy	*Q*	x	kWh/a
Seasonal energy efficiency ratio	*SEPR*	x	

Parameters at full load and at a room temperature of 32°C (Point A)			
Nominal cooling capacity	P_A	1,08	kW
Nominal absorbed power	D_A	0,75	kW
Nominal COP	COP_A	1,43	

Parameters at full load and at a room temperature of 25°C (Point B)			
Nominal cooling capacity	P_B	1,20	kW
Nominal absorbed power	D_B	0,72	kW
Declared COP	COP_B	1,66	

Parameters at full load and at a room temperature of 15°C (Point C)			
Nominal cooling capacity	P_C	x	kW
Nominal absorbed power	D_C	x	kW
Declared COP	COP_C	x	

Parameters at full load and at a room temperature of 5°C (Point D)			
Nominal cooling capacity	P_D	x	kW
Nominal absorbed power	D_A	x	kW
Declared COP	COP_D	x	

Parameters at full load and at a room temperature of 43°C			
Nominal cooling capacity	P_3	0,92	kW
Nominal absorbed power	D_3	0,80	kW
Declared COP	COP_3	1,15	

Control of capacity	*fixed*

Degradation coefficient of the units with a fixed and progressive capacity	*Cdc*	0,25	

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COSTAN | Bonnet Névé | GEORGE BARKER | eurocryor | misa | jarp | KNUDSEN KØLING

BUREAU VERITAS 1828
BUREAU VERITAS
PED Certification

TÜV AUSTRIA CERTIFIED
TÜV AUSTRIA CERT GMBH
EN ISO 9001
20 100 52000877
EN ISO 14001
20 104 141373322
OHSAS 18001
20 116 141373323