

FREEDOM

FREEDOM OF CHOICE IN ENERGY SOURCE, INSTALLATION AND APPLICATION

Effective at the lowest water temperatures

Freedom is super-efficient in combination with any energy source. The lower the water temperature, the clearer the benefits of its power and flexibility! It is the perfect solution for use with heat pumps and new heating systems operating at very low water temperatures.

Compact elegant design

Freestanding Freedom radiators present Jaga's innovative and environmentally friendly Hybrid technology in its most compact and beautiful design yet. From its compact design, it packs a powerful punch and performs much more

effectively than a bulky traditional radiator or fan convector and can be easily integrated into any interior design concept.

Heating and cooling

Despite its compact design, Freedom can meet your heating and cooling requirements! It's suitable for non-condensing and condensing cooling using chilled water. Freedom comes fitted with a condensate tray as standard.



jaga

PRESENTING FREEDOM



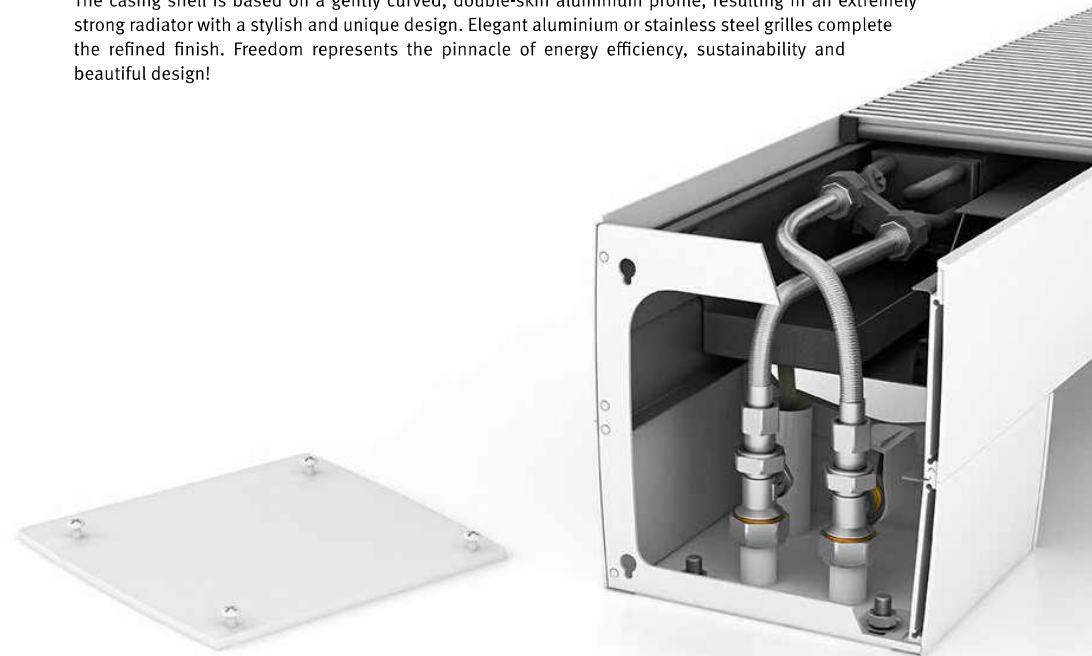
AWAKE
THE ARTIST





THE BEST TECHNOLOGY AND BEAUTIFUL DESIGN IN HARMONY

The casing shell is based on a gently curved, double-skin aluminium profile, resulting in an extremely strong radiator with a stylish and unique design. Elegant aluminium or stainless steel grilles complete the refined finish. Freedom represents the pinnacle of energy efficiency, sustainability and beautiful design!



PERFECT FOR FREE COOLING

When using low temperature systems such as heat pumps, summer cooling can be provided using groundwater. This extremely eco-friendly form of cooling will become more and more popular, and may become compulsory in some countries. Freedom is one of the most efficient and environmentally-friendly solutions for this type of climate control.



COMPACT

FREEDOM CLIMA

ORDERING CODE

code	height	length	width	colour	colour	grille
FDCF.	020	062	19.	XXX.	XXX	/XXX
enter casing colour ref.						
enter cover panel colour ref.						
enter grille code						

DELIVERY

Product is made to order, please contact our customer service team on 01531 631 533 to discuss your requirements.

COLOURS

Scratch resistant epoxy-polyester finish with a structured satin gloss surface.
High UV resistance.

Standard colours:

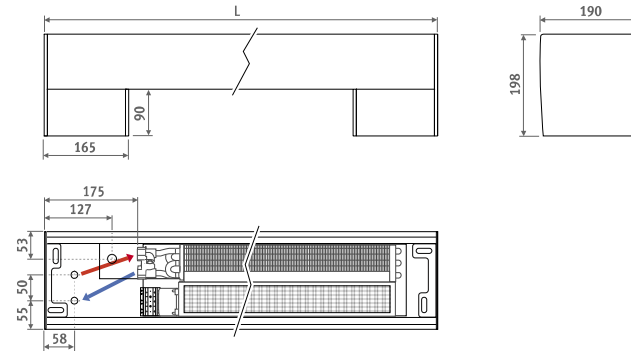
- traffic white RAL 9016 (133),
soft touch lightly structured satin lacquer
- sandblast grey (001),
fine texture metallic lacquer

Other colours: see colour chart

HYDRAULIC CONNECTION

- the heat exchangers are same-end connection and are always connected to a two pipe installation on the left hand side, using the stainless steel flexible hoses
- allow extra space for curtains between the Freedom casing and the window.
- always install Freedom Clima with the heat exchanger on the window side or on the wall side, not on the room side
- insulate valve and pipes to prevent condensation when cooling

DIMENSIONS (in mm)



RECOMMENDED COMBINATIONS

	Heating and/or cooling	
	Including thermostat	Without thermostat
Product	Freedom Clima	Freedom Clima
Regulation	Thermostat heating / cooling Ordering code 8751.050009	Pre-mounted JDCP with control panel DPC.FCC4 for heating or DPC.FCC6 for heating and cooling
Connection set	Connection set 94 with 24 VDC 0-10V motor Ordering code CODY.AA4.10.3... <small>(fill in sleeve coupling code: see p. 312)</small>	Connection set 91 with 2 lockshields Ordering code CODY.LOS.00.3... <small>(fill in sleeve coupling code: see p. 312)</small>

OUTPUTS & PRICES

L	HEATING									COOLING					
	Watts			Watts			Watts			Watts total			Watts sensible		
	75/65/20°C	75/65/20°C	75/65/20°C	55/45/20°C	55/45/20°C	55/45/20°C	35/30/20°C	35/30/20°C	35/30/20°C	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.
	max.	med.	min.	max.	med.	min.	max.	med.	min.	max.	med.	min.	max.	med.	min.
740	1219	984	653	731	591	392	305	246	163	274	192	131	206	142	95
1100	2438	1969	1305	1463	1181	783	609	492	327	548	385	263	413	285	191
1450	3657	2953	1958	2194	1772	1175	914	738	490	822	577	394	619	427	287
1810	4876	3937	2611	2925	2363	1567	1219	984	653	1096	769	525	826	569	382

EN442 output at 20°C room temperature
Correction factors & pressure drop: see "Technical info" chapter

* Applicable when a required colour is not standard. See page 277.

TECHNICAL DATA

L	FAN	SOUND PRESSURE*			RATED INPUT			AIR FLOW			WEIGHT	WATER CONTENT
	Number	max.	dB(A) med.	min.	max.	Watts med.	min.	max.	m³/h med.	min.	kg	l
740	1	41.9	34.6	25.6	4.4	3.2	1.7	100	75	45	11.5	0.12
1100	1	46.1	37.2	26.2	6.7	4.8	2.0	201	151	90	16.7	0.28
1450	2	47.5	39.1	28.9	10.3	6.7	3.5	301	226	135	20.7	0.44
1810	2	49.1	40.2	29.2	12.1	8.3	3.6	401	301	180	26.7	0.60

* With an assumed room attenuation of 8 dB(A) / content of the room 75 m³ / reverberation time 0.5 sec. / measured at 1 m height and 2 m from the appliance.

Weight and water content without packaging or options.

SMALLEST

FREEDOM MICRO

75 65 55 45 35 30

ORDERING CODE

code	height	length	width	colour	colour	grille
FDMF.	019	062	14.	XXX.	XXX	/XXX
enter casing colour ref.						
enter cover panel colour ref.						
enter grille code						

DELIVERY

Product is made to order, please contact our customer service team on 01531 631 533 to discuss your requirements.

COLOURS

Scratch resistant epoxy-polyester finish with a structured satin gloss surface.
High UV resistance.

Standard colours:

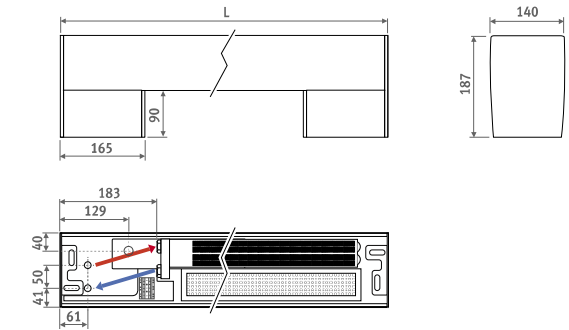
- traffic white RAL 9016 (133),
soft touch lightly structured satin lacquer
- sandblast grey (001),
fine texture metallic lacquer

Other colours: see colour chart

ELECTRICAL CONNECTION

- 24 VDC clamp connector for electrical connection on the left, to be connected to an external power supply
- Install a thermostat with a volt-free contact to control the water supply with the help of a zone valve.
- Freedom Micro automatically switches on the activators via a temperature sensor.

DIMENSIONS (in mm)



HYDRAULIC CONNECTION

- the heat exchangers are same-end connection and are always connected to a two pipe installation on the left hand side, using the stainless steel flexible hoses
- always install Freedom Micro with the heat exchanger on the window side or on the wall side, not on the room side
- allow extra space for curtains between the Freedom casing and the window.
- insulate valve and pipes to prevent condensation when cooling

RECOMMENDED COMBINATIONS

	Heating and/or cooling	
	Product	Connection set
	Freedom Micro	Connection set 91 with 2 lockshields Ordering code: CODY.LOS.00.3... <small>(fill in sleeve coupling code: see p. 312)</small>

OUTPUTS & PRICES

L	HEATING									COOLING					
	Watts			Watts			Watts			Watts total			Watts sensible		
	75/65/20°C	75/65/20°C	75/65/20°C	55/45/20°C	55/45/20°C	55/45/20°C	35/30/20°C	35/30/20°C	35/30/20°C	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.	7/12°C - 25°C D.B. 50% R.H.
	max.	med.	min.	max.	med.	min.	max.	med.	min.	max.	med.	min.	max.	med.	min.
062	N/A	424	N/A	N/A	254	N/A	N/A	106	N/A	N/A	64	N/A	N/A	48	N/A
097	N/A	848	N/A	N/A	509	N/A	N/A	212	N/A	N/A	129	N/A	N/A	97	N/A
132	N/A	1272	N/A	N/A	763	N/A	N/A	318	N/A	N/A	193	N/A	N/A	145	N/A
167	N/A	1696	N/A	N/A	1018	N/A	N/A	424	N/A	N/A	257	N/A	N/A	193	N/A
202	N/A	2120	N/A	N/A	1272	N/A	N/A	530	N/A	N/A	322	N/A	N/A	242	N/A

EN442 output at 20°C room temperature
Correction factors & pressure drop: see "Technical info" chapter

* Applicable when a required colour is not standard. See page 277.

TECHNICAL DATA

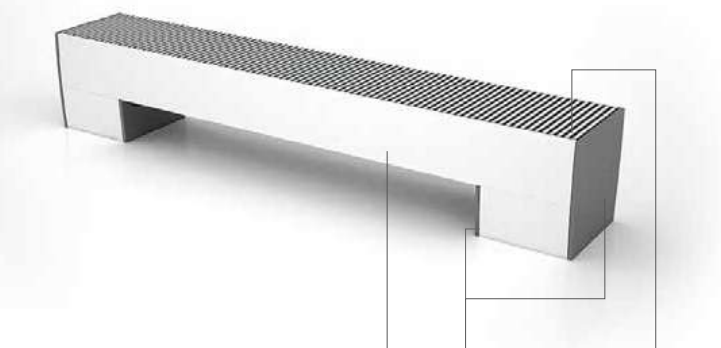
L	FAN	SOUND PRESSURE*			RATED INPUT			AIR FLOW			WEIGHT	WATER CONTENT
	Number	max.	dB(A)	min.	max.	Watts med.	min.	max.	m³/h med.	min.	kg	l
062	1	N/A	31.0	N/A	N/A	1.4	N/A	N/A	52	N/A	8.2	0.09
097	1	N/A	31.5	N/A	N/A	1.9	N/A	N/A	104	N/A	12.2	0.18
132	1	N/A	36.5	N/A	N/A	2.0	N/A	N/A	156	N/A	15.7	0.27
167	2	N/A	34.5	N/A	N/A	3.8	N/A	N/A	208	N/A	19.5	0.36
202	2	N/A	37.7	N/A	N/A	4.0	N/A	N/A	260	N/A	23.1	0.45

* With an assumed room attenuation of 8 dB(A) / content of the room 75 m³ / reverberation time 0.5 sec. / measured at 1 m height and 2 m from the appliance.

Weight and water content without packaging or options.

FREEDOM

CODE STRUCTURE - OVERVIEW COLOUR COMBINATIONS



Freedom Clima FDCF.020 181 19. 133. 001 /BNA
Freedom Micro FDMF.019 167 14 133. 001 /SSS

code height length width colour casing: colour cover panels grille code

Standard colours:
 traffic white RAL 9016 (133)
 sandblast grey (001)

Other colours:
 see colour chart

Freedom Clima:
 Grille aluminium natural: BNA
 Grille aluminium lacquered: BNC/2XX
 enter colour code

Freedom Micro:
 Grille stainless steel SSS
 Grille stainless steel lacquered: SSC/2XX
 enter colour code

COMPOSITION

Natural anodised aluminium grilles with aerodynamically designed fin profiles for improved air movement

Stainless steel grilles with aerodynamically designed fin profiles for improved air movement

Dynamic Low-H₂O heat exchanger in in copper and aluminium, electrostatically black painted. With "click" steel fastening for easy maintenance

Stainless steel flexible connections 1/2", 15 cm long

Condensate tray with outlet spigot ø 10 mm

Electrical connection

EXAMPLES

with standard colours



with other colours



Create your own



Design your own print
 For more information contact Jaga
 Phone: 011531 631 533
 Email: jaga@jaga.co.uk
 Website: www.jaga.co.uk

Integrated air filter in stainless steel, with steel click fixing for easy maintenance

Tangential activator(s) with ball-bearing 24VDC EC-motor-saving up to 50% in electricity consumption. With soundproof EPDM damper

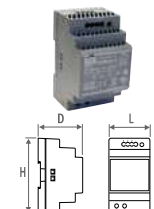
Inner casing in black painted steel plate

Cover-up panels in aluminium

Casing in double-skin aluminium

FREEDOM CLIMA & MICRO - OPTIONS

POWER SUPPLY



The guarantee is only valid if the original Jaga power supply is used.

CODE	H	L	D
7990.054	9.0	3.5	5.9
7990.055	9.0	5.3	5.9
7990.056	9.0	7.0	5.9

- for DIN-rail or wall mounting
- conformity UL60950 / UL508 / IEC 60950-1 / TUV EN61558-2-16 / Klasse 2
- output voltage 24 VDC / input 100 - 240 VAC
- screw connection and LED indicator

CODE	output Watts	Output current A
7990.054	30	1.5
7990.055	60	2.5
7990.056	92	3.9

Required power = sum of the power consumption of the devices

MAXIMUM CABLE LENGTH IN FUNCTION OF THE NUMBER OF DEVICES: SEE

In function of the number of devices: see <http://www.jaga.co.uk/en/products/freestanding/freedom>

VALVES

See page 96.

FREEDOM CLIMA - OPTIONS

CLOCK THERMOSTATS HEATING / COOLING

- automatic thermostat for 2-pipe: heating/cooling or auto
- ventilator speed: min./med./max. or auto
- power supply 24 VDC
- output control(s) 0-10 VDC
- 1 clock thermostat per room
- 3 programmable zones: 5+1+1
- LCD display with background lighting
- protection category IP30

Jaga clock thermostat for wall mounting

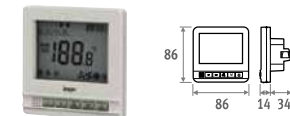


- 2 potential-free contacts heating/cooling (f.e. valve control 24 VDC or 230 VAC)
- with key card contact / window contact
- can be mounted on a junction box with screw holes at 60mm

CODE

8751.050013 wall mounted

Jaga clock thermostat for recessed/panel mounting

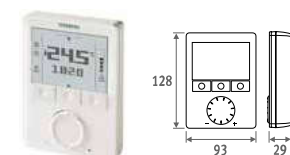


- spacing holes at 60mm
- minimum depth 45mm
- inner dimension 50 x 50mm or ø 60mm

CODE

8751.050012 recessed/panel mounted

Siemens clock thermostat for wall mounting



- unlimited adjustment possibilities: 74 features and diagnostic test
- For more information contact Jaga
 Phone: 011531 631 533
 Email: jaga@jaga.co.uk
 Website: www.jaga.co.uk

CODE

8751.050009 wall mounted

PRE-ASSEMBLED JAGA DYNAMIC PRODUCT CONTROLLER (JDPC)

Multifunctional controller for dynamic heating and cooling devices provided with one or more built-in fans. The Jaga Dynamic Product Controller is pre-configured and assembled inside the device. The configuration options are device dependent, and are selected using the code shown on the sticker in the device.

- control per appliance
- auto switch heating/cooling



WITH CONTROL PANEL

- indication of operating mode by LED's
- control with touch operation and sensors for water and room temperature, pre-configured and assembled by Jaga
- power supply 24 VDC
- heating/cooling/standby with automatic switch (temporary manual adjustment is possible)
- Control:
 - standby
 - heating: 3 speeds (operates at water temperature >28°C, can easily be modified)
 - cooling: 3 speeds (operates at water temperature <18°C, can easily be modified)
- 0-10 V input for building management system/thermostats (contact Jaga for more information)

CODE

DPC.FRC4 Heating
 DPC.FRC6 Heating and cooling