

**jaga**



TOP  
PERFORMERS

**FREEDOM**

2018.EX



# FREEDOM

Freedom of choice in energy source, installation and application

## Effective at the lowest water temperatures

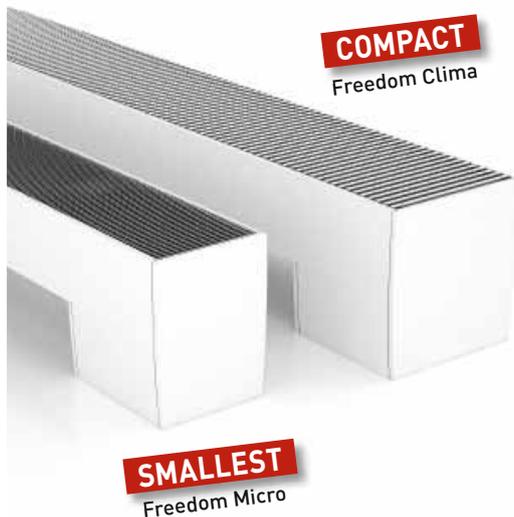
Freedom is super-efficient in combination with any energy source. The lower the water temperature, the clearer the benefits of its power and flexibility! It is the perfect solution for use with heat pumps and new heating systems operating at very low water temperatures.

## 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 sympathetically 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.







# 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 water/water 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**

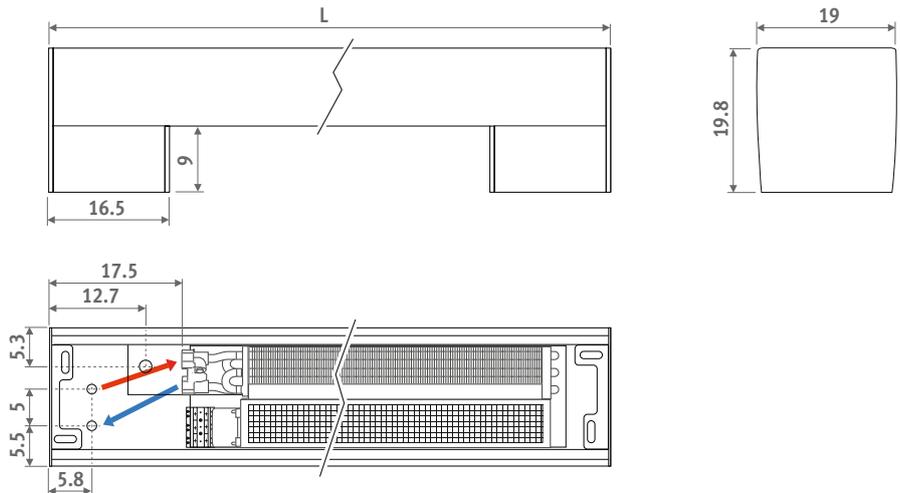
# FREEDOM CLIMA

75 65 55 45 35 30

## 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					

## DIMENSIONS (in cm)



## STANDARD DELIVERY

Fully pre-mounted free-standing radiator consisting of:

- aluminium casing
- aluminium cover panels
- aluminium grilles
- dynamic heat exchanger with flexible stainless steel connections 1/2", 15 cm long
- 24 VDC tangential activator(s), with integrated stainless steel filter
- hydraulic and electrical connections integrated in the left foot

## 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

- 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

## ELECTRICAL CONNECTION

- 24 VDC clamp connector for electrical connection on the left, to be connected to an external power supply
- speedcontrol activator(s) 0-10 V:
  - Jaga room controller (4 zone(s))
  - thermostat (for heating and cooling) with 0-10 VDC output control (1 zone)
  - through home automation 0-10 VDC

## RECOMMENDED COMBINATIONS

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

## OUTPUTS & PRICES

### HEATING

Watts	Watts	Watts
75/65/20°C	55/45/20°C	35/30/20°C
max. med. min.	max. med. min.	max. med. min.

### COOLING

Watts total	Watts sensible
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.

L	max.	med.	min.												
074	1219	984	653	731	591	392	305	246	163	274	192	131	206	142	95
110	2438	1969	1305	1463	1181	783	609	492	327	548	385	263	413	285	191
145	3657	2953	1958	2194	1772	1175	914	738	490	822	577	394	619	427	287
181	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 306.

## TECHNICAL DATA

L	FAN Number	SOUND PRESSURE*			RATED INPUT			AIR FLOW			WATER FLOW		WEIGHT kg	WATER CONTENT l
		dB(A)			Watts			m³/h			l/h	l/h		
		max.	med.	min.	max.	med.	min.	max.	med.	min.	heating	cooling		
074	1	41.9	34.6	25.6	4.4	3.2	1.7	100	75	45	107	47	11.5	0.12
110	1	46.1	37.2	26.2	6.7	4.8	2.0	201	151	90	214	94	16.7	0.28
145	2	47.5	39.1	28.9	10.3	6.7	3.5	301	226	135	321	141	20.7	0.44
181	2	49.1	40.2	29.2	12.1	8.3	3.6	401	301	180	428	188	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**

75 65 55 45 35 30

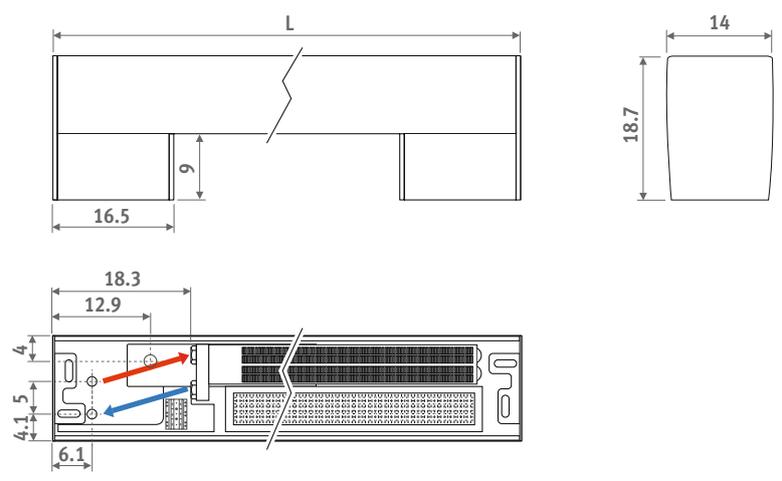
# FREEDOM MICRO



## 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					

## DIMENSIONS (in cm)



## STANDARD DELIVERY

- Fully pre-mounted free-standing radiator consisting of:
- aluminium casing
  - aluminium cover panels
  - grille in stainless steel
  - dynamic heat exchanger with flexible stainless steel connections 1/2", 15 cm long
  - 24 VDC tangential activator(s), with integrated stainless steel filter
  - hydraulic and electrical connections integrated in the left foot
  - automatic activator on/off switch by means of temperature sensor

## 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
- 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
<b>Product</b>	Freedom Micro
<b>Connection set</b>	Connection set 91 with 2 lockshields Ordering code: CODY.LOS.00.3... <i>(fill in sleeve coupling code: see p. 312)</i>

## 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.

## OUTPUTS & PRICES

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

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 314.

## TECHNICAL DATA

L	FAN	SOUND PRESSURE*	RATED INPUT	AIR FLOW	WATER FLOW		WEIGHT	WATER CONTENT
	Number	dB(A)	Watts	m³/h	l/h heating	l/h cooling	kg	l
062	1	31.0	1.4	52	37	11	8.2	0.09
097	1	31.5	1.9	104	75	22	12.2	0.18
132	1	36.5	2.0	156	112	33	15.7	0.27
167	2	34.5	3.8	208	149	44	19.5	0.36
202	2	37.7	4.0	260	186	55	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



<b>Freedom Clima</b>	FDCF.	020	181	19.	133.	001	/BNA
<b>Freedom Micro</b>	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: BNC/2XX  
enter colour code ↴

### EXAMPLES

**with standard colours**

**with other colours**

**Create your own**

Design your own print  
For more information contact Jaga:  
☎ +32 29 41 12 - ✉ export@jaga.be  
or your local dealer

## COMPOSITION

**Natural anodized 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-H<sub>2</sub>O heat exchanger** 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**

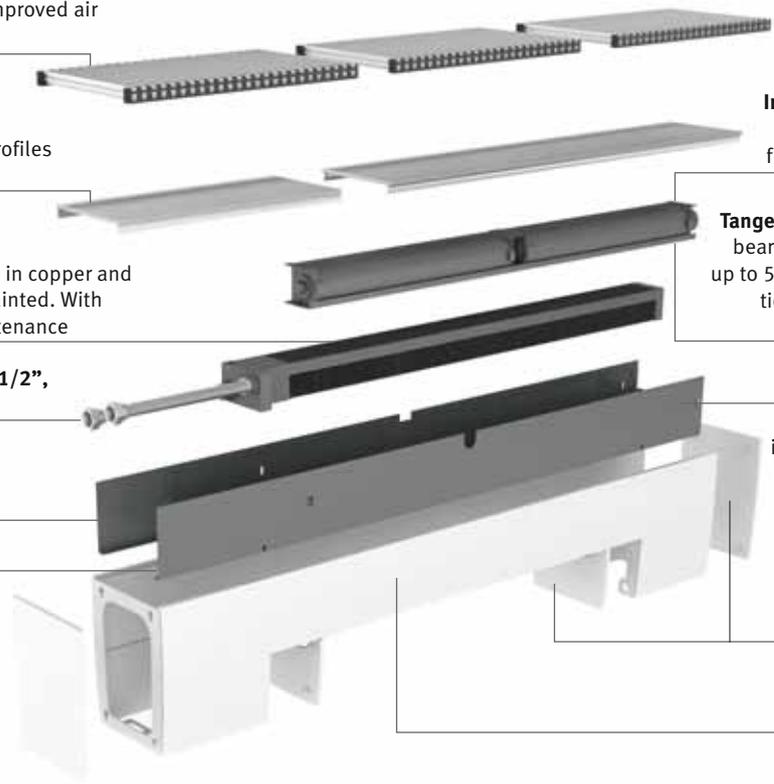
**Integrated air filter** in stainless steel, with steel click fixing for easy maintenance

**Tangential activator(s)** with ball-bearing 24VDC EC-motorsaving 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

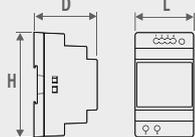


# FREEDOM CLIMA & MICRO - OPTIONS

## 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
7990.053	12.5	12.6	8.3

- 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	100	3.9
7990.053	240	10

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.be/en/products/freestanding/freedom>

## CONNECTION SETS

### With Jaga valve and lockshield M24



- thermoelectric drive 24 VDC
- valve G1/2" x M24 180°
- lockshield G1/2" x M24 180°
- pressure drop graph Jaga valve: see p. 160

set 94

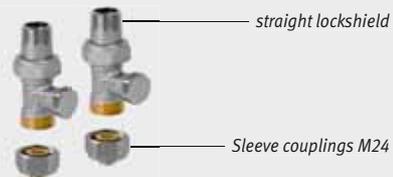
### TWO PIPE

CODY.AA4.24.3... 24 VDC

CODY.AA4.10.3... 24 VDC (0-10V)

fill in sleeve coupling code: see p. 312

### With 2 lockshields M24



set 91

### TWO PIPE

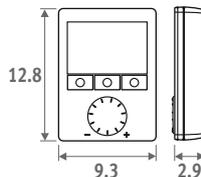
CODY.LOS.00.3...

fill in sleeve coupling code: see p. 312

# FREEDOM CLIMA

## OPTIONS

### Siemens clock thermostat for wall mounting



- unlimited adjustment possibilities: 74 features and diagnostic test

For more information contact Jaga:

☎ +32 11 29 41 12 - ✉ [export@jaga.be](mailto:export@jaga.be)

or your local dealer

### 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



Touch operation

Product controller

## 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:
  - o standby
  - o heating: 3 speeds (operates at water temperature >28°C, can easily be modified)
  - o 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



Jaga International  
Verbindingslaan 16  
B-3590 Diepenbeek

Tel.: +32 (0)11 29 41 12  
Fax: +32 (0)11 29 41 60  
export@jaga.be

The information in this price list is correct at the time of printing.  
Jaga reserves the right to change product specification at any time in line  
with our policy of continuous improvement and innovation.  
All prices in Euro, exclude VAT. Prices valid from 1st March 2018.  
Replaces all existing price lists.