





Deep cooling



CLIMATE DESIGNERS





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

LYNGSON

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.

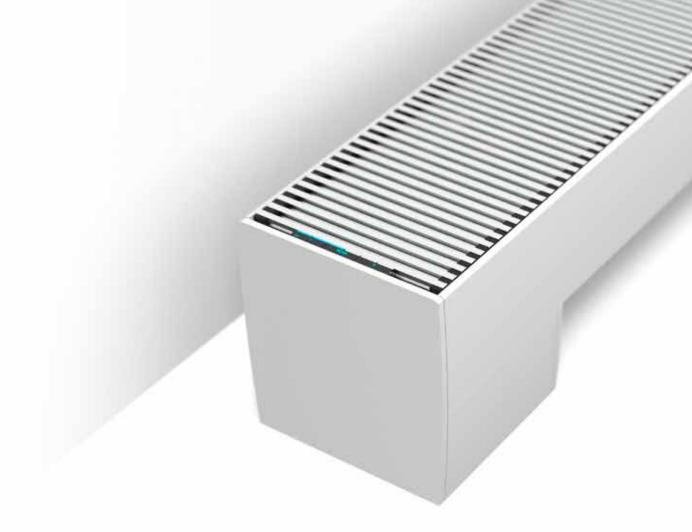






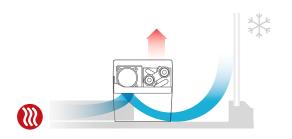
## THE BEST TECHNOLOGY AND BEAUTIFUL DESIGN IN HARMONY

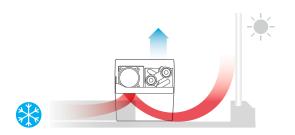
The casing shell is based on a gently curved, double-skin aluminium profile, resulting in an extremely strong radiator with a stylish and unique design. Elegant aluminium or stainless steel grilles complete the refined finish. Freedom represents the pinnacle of energy-efficiency, sustainability and beautiful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



### PERFECT FOR FREE COOLING

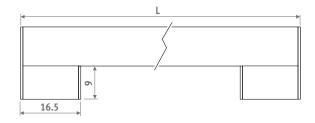
When using water/water heat pumps, summer cooling can be provided using groundwater. This extremely eco-friendly form of cooling will become more and more popular, and may become compulsory in some countries. Freedom is one of the most efficient and environmentally-friendly solutions for this type of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

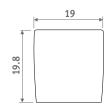


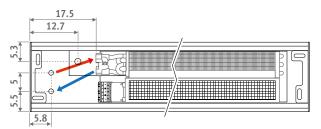


#### **DIMENSIONS** (in cm)









#### 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 foot
- pre-assembled JDPC with control panel

#### **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 to be connected to an external power supply

#### **HYDRAULIC CONNECTION**

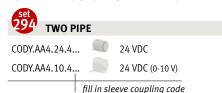
- allow extra space for curtains between the Freedom casing and the window.
- always install Freedom with the heat exchanger on the window side or on the wall side, not on the room side
- insulate valve and pipes to prevent condensation when cooling

#### **CONNECTION SETS**

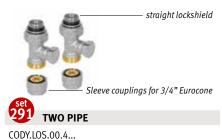
#### With Jaga valve and lockshield



- Sleeve couplings for 3/4" Eurocone
- thermoelectric drive 24 VDC
- valve G1/2" x 3/4" Eurocone 180°
- lockshield G1/2" x 3/4" Eurocone 180°
- pressure drop graph Jaga valve: see p. 338

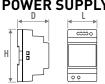


#### With 2 lockshields



fill in sleeve coupling code

#### OPTION **POWER SUPPLY**



| CODE     | Н   | 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 |
| 7990.057 | 9.0 | 10.3 | 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<br>Watts | Output current<br>A |  |
|----------|-----------------|---------------------|--|
| 7990.054 | 36              | 1.5                 |  |
| 7990.055 | 60              | 2.5                 |  |
| 7990.056 | 92              | 3.9                 |  |
| 7990.057 | 150             | 6.25                |  |

Required power = sum of the power consumption of the devices

| DIMENSIONS | POSITION |                       | HEATING                   |                           |                              | . COOLING TOTAL<br>ROOM TEMPERATURE 27℃ | . COOLING SENSIBLE<br>ROOM TEMPERATURE 27°C | COOLING<br>(Non-condensing)<br>ROOM TEMPERATURE 27°C | SOUND PRESSURE* | AIR FLOW | POWER CONSUMPTION | ORDER CODE           |
|------------|----------|-----------------------|---------------------------|---------------------------|------------------------------|---|---|--|-----------------|----------|-------------------|----------------------|
| H L B      |          | <b>75/65</b><br>Watts | <b>55/45</b> <i>Watts</i> | <b>45/35</b> <i>Watts</i> | <b>35/30</b><br><i>Watts</i> | <b>7/12</b> <i>Watts</i>                | <b>7/12</b><br>Watts                        | <b>16/18</b> <i>Watts</i>                            | dB(A)           | m³/h     | Watts             |                      |
| 020 074 19 | 1        | 562                   | 335                       | 221                       | 139                          | 172                                     | 123   | 75   | 15              | 37       | 0.8               | FDCF.020 074 19 /XXX |
|            | 2        | 792                   | 472                       | 311                       | 196                          | 268                                     | 194   | 118  | 23              | 52       | 1.3               |                      |
|            | 3        | 1218                  | 726                       | 478                       | 301                          | 466                                     | 346   | 210  | 34              | 79       | 3.0               |                      |
| 110 19     | 1        | 1122                  | 669                       | 441                       | 278                          | 342                                     | 245   | 148  | 19              | 75       | 1.3               | FDCF.020 110 19 /XXX |
|            | 2        | 1580                  | 943                       | 621                       | 391                          | 535                                     | 388   | 235  | 29              | 98       | 2.7               |                      |
|            | 3        | 2433                  | 1451                      | 956                       | 602                          | 931                                     | 691   | 419  | 37              | 160      | 7.1               |                      |
| 145 19     | 1        | 1687                  | 1006                      | 663                       | 417                          | 513                                     | 368   | 223  | 20              | 112      | 2.1               | FDCF.020 145 19 /XXX |
|            | 2        | 2375                  | 1417                      | 933                       | 588                          | 804                                     | 583   | 353  | 30              | 150      | 4.0               |                      |
|            |          | 3656                  | 2181                      | 1436                      | 905                          | 1398                                    | 1037  | 628  | 39              | 239      | 10.1              | EDCE 000 404 40 hoor |
| 181 19     | 1        | 2249                  | 1341                      | 884                       | 557                          | 687                                     | 492   | 298  | 22              | 150      | 2.5               | FDCF.020 181 19 /XXX |
|            | 2        | 3168                  | 1890                      | 1245                      | 784                          | 1072                                    | 777   | 471  | 32              | 196      | 5.4               |                      |
|            | 3        | 4877                  | 2909                      | 1916                      | 1207                         | 1866                                    | 1384  | 839  | 41              | 320      | 14.1              |                      |

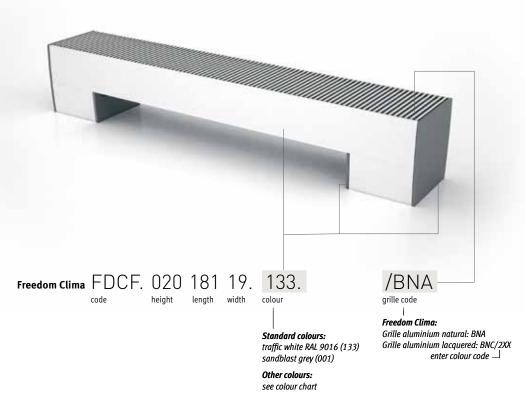
enter grille code

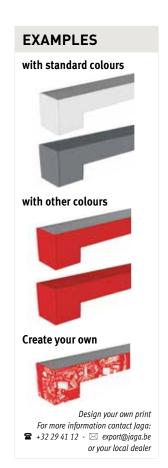


Output measured in accordance with EN 16430  $^{\star}$  Noise measurement according to ISO 3741:2010, 2 m from the device and with an assumed room attenuation of 8 dB(A) / room volume 100 m³ / reverberation time 0.5 sec.

**COMPOSITION** 

#### **CODE STRUCTURE - OVERVIEW COLOUR COMBINATIONS**

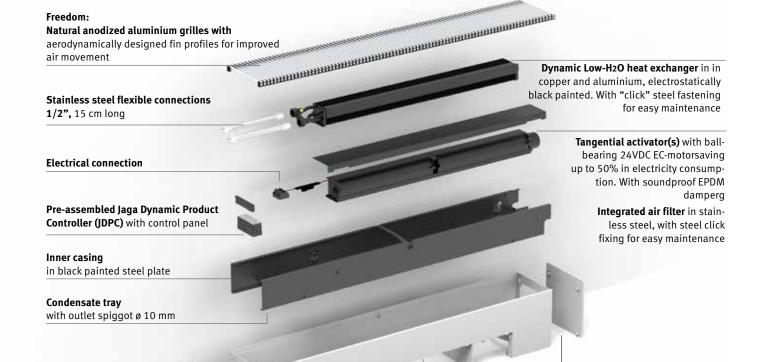




Cover-up panels in aluminium

in double-skin aluminium

asing





| NOTES |  |
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# jaga

CLIMATE DESIGNERS

## LYNGSON

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