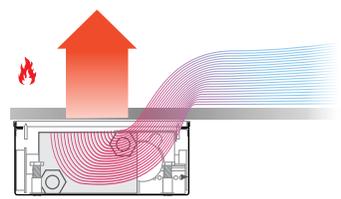


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Smallest floor recessed fancoil unit

- build-in height of 2.44" > 3.15"
- electronic control: on/off based on water temperature
- 24V EC motor



# MICRO CANAL

LOW TEMPERATURE **HEATING** SYSTEM

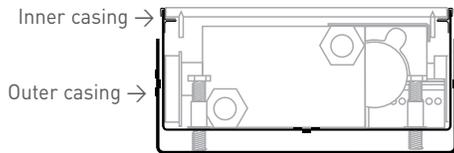


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**Micro Canal**

**Parts**

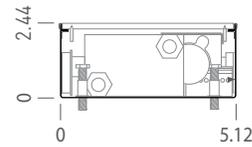
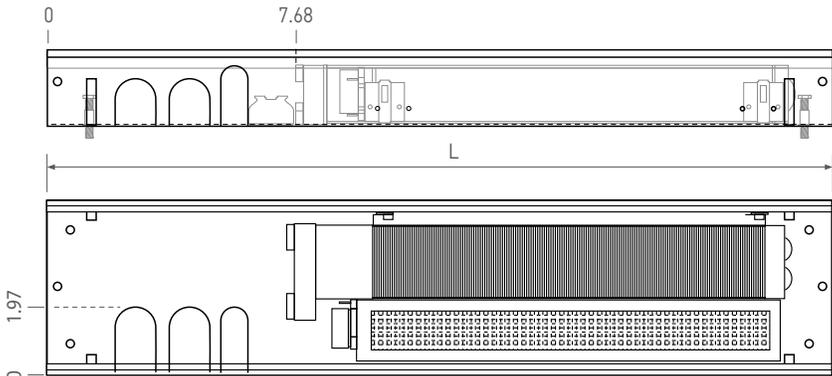
1	SS grille
2	Tangential fan, EC motor 24 VDC
3	Dynamic coil, Standard connection 1/2" NPT always left
4	Fan controller
5	Inner casing with height adjustment
6	Outer casing
7	End cap(s) inner casing
8	Height adjustments (2.44" to 3.15")



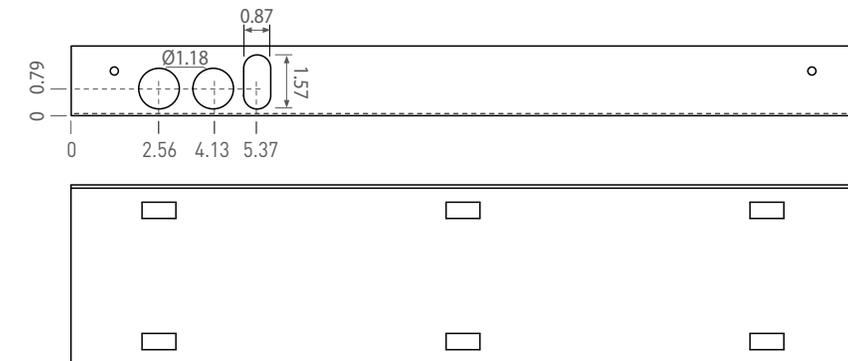
**Dimensions**

Length	MIRF.00606014	MIRF.00609514	MIRF.00613014	MIRF.00616514	MIRF.00620014
L (complete length inch)	23.62	37.40	51.18	64.96	78.74

**Inner casing:**



**Outer casing:**





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**Micro Canal**

**General info**

**Benefits**

- fan starts when supply water is 95°F (measured on the heat-exchanger)
- width 5.12"
- length 23.62" / 37.40" / 51.18" / 64.96" / 78.74"
- sound pressure 22.8 dB(A), (lengte 37.4")
- minimum build-in height 2.44", adjustment till 3.15"
- protection block
- simple control, no external signal required
- EC motor 24 VDC
- stainless steel continuous grille
- can be installed as a continuous product, open spaces can be filled with empty ducts

**Options**

- adjustable feet for raised floors
- empty trench
- corner piece (optional)

**Grille**

**Stainless steel continuous grille**



MIRF.006 060 14. /SSS

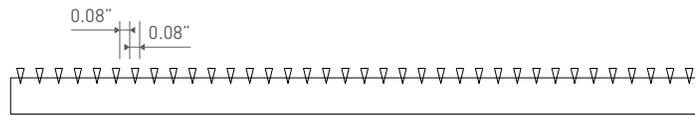
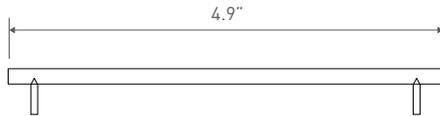
SSS Stainless steel

**Stainless steel continuous grille (option: painted)**



MIRF.006 060 14. / SSC / ...  
Fill in Grille colour code

SSC / ...



**Micro Canal: heating (BTU/h)**

With stainless steel grille

L (cm)	L (inch)	CODE	Output BTU/h (170/150/68°F)
60	23.62	MIRF.00606014/SSS	1411
95	37.40	MIRF.00609514/SSS	2823
130	51.18	MIRF.00613014/SSS	4234
165	64.96	MIRF.00616514/SSS	5646
200	78.74	MIRF.00620014/SSS	7057

- Supply/return/room: 170/150/68°F

**CODE:**

Code | Height (cm) | Length (cm) | width (cm) | Grille | Grille colour \*  
MIRF. 006 060 14 / ... / ...

\* Only for grille SSC

\* To ensure perfect adherence of the powder coating, an extremely wear-resistant and UV-resistant polyester lacquer coating of the highest quality is used. Only in glossy finish (code 2..); or special color, code: 006 / 005 / 028 / 026



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**Micro Canal**

Jaga Micro Canal: Technical data						
	Code	MIRF.00606014	MIRF.00609514	MIRF.00613014	IRF.00616514	MIRF.00620014
	L cm / inch	60 / 23.62	95 / 37.40	130 / 51.18	165 / 64.96	200 / 78.74
Heating BTU/h	• (140°F / 120°F / 70°F)	891	1783	2674	3566	4457
Water flow heating GPM	(Gallons per minute)	0.12	0.2	0.4	0.5	0.6
Air flow CFM	(Cubic feet per minute)					
Heat Exchanger (coil)	Fins Per Inch (FPI)	14 (56 fins per 3.94 inch)				
	Face Area ft <sup>2</sup>	0.022 ft <sup>2</sup>				
	Coil connections (inch)	1/2" NPT				
Fan	Quantity	1	1	1	2	2
	Diameter (inch)	1.26				
	Length (inch)	11.81	23.62	35.43	47.24	59.06
Control		Automatic				
EC Motor (24VDC)	Consumption Watt	1,3	1,7	2	3,4	3,7
	Quantity	1	1	1	2	2
	RPM Speed					
	Sound pressure dB(A)	18	21	22,8	24	25
	Voltage Volts	24VDC				
Cabinet	Min. built in Height inch	2.44				
	Height (inch)	adjustable between: 2.44 > 3.15				
	Length (inch)	23.62	37.4	51.18	64.96	78.74
	Width (inch)	5.12				
	Weight lbs	15	22	30	37	45

• Supply water T°: 140°F, return water T°: 120°F, return air T°: 70°F





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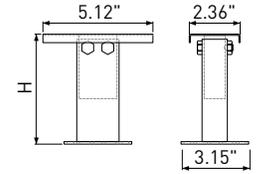
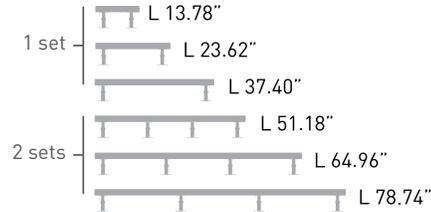
**Micro Canal**

**Options**

**Height adjustable feet for computer floors**



Number feet per appliance:



- for raised floors
- painted in the colour black RAL 7024
- 1 set = 2 height adjustments

H (inch)	CODE
1.97 > 2.76	5207.05070000
3.15 > 5.12	5207.08130000
5.12 > 9.06	5207.13230000
7.87 > 11.81	5207.20300000

**Empty trench (all standard lengths)**



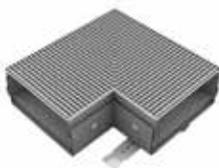
- All lengths
- to fill open spaces for a continuous installation
  - SS continuous grille
  - with height adjustment

L (cm)	L (inch)	With stainless steel grille	With painted stainless steel grille
		CODE	CODE
35	13.78	7522.00603514/SSS	7522.00603514/SSC/...
60	23.62	7522.00606014/SSS	7522.00606014/SSC/...
95	37.40	7522.00609514/SSS	7522.00609514/SSC/...
130	51.18	7522.00613014/SSS	7522.00613014./SSC/...
165	64.96	7522.00616514/SSS	7522.00616514/SSC/...
200	78.74	7522.00620014/SSS	7522.00620014/SSC/...

Fill in Grill colour code



**Corner piece**

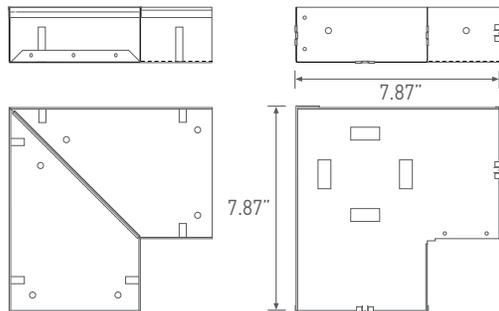


	With stainless steel grille	With painted stainless steel grille
	CODE	CODE
Inside corner	7522.00602014/SSS/02	7522.00602014/SSC /.../02
Outside corner	7522.00602014/SSS/01	7522.00602014/SSC /.../01

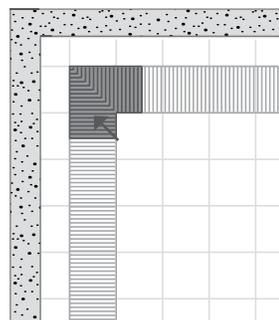
Fill in Grill colour code



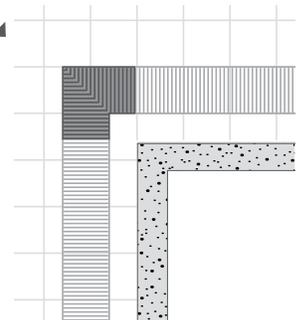
**Dimensions (in inch)**



**Inside corner**



**Outside corner**



- connecting and finishing of corners
- with painted cover plate
- with height adjustment
- inside corner piece
- outside corner piece



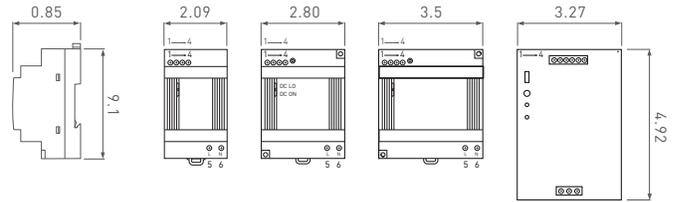
**jaga**

**Micro Canal**



- small installation height
- safety: UL1310 Class 2
- fanless cooling
- DIN-rail installation

CODE	Description
7990.050	31 W
7990.051	60 W
7990.052	100 W
7990.053	240 W



Dimensions in inch

The warranty is only valid when the original Jaga power supply is used.

Required power = sum of the power consumption of all components +10% for start up

**Technical data**

	Order CODE	7990.050	7990.051	7990.052	7990.053
Phases		1	1	1	1
Output voltage between	VDC	24-28	24-28	24-28	22.5 - 28.5
Output current	A	1,3	2,5	4,2	5
Power	Watt	31,2	60	100,8	240
Input voltage (single phase)	VAC	90-264	90-264	90-264	93-132 / 186-264
Weight	lbs	0.44	0.55	0.70	1.98
Overload protection:	%	120 - 145%			
LED Display:		Green LED = on, Red LED = DC output Low			
Operating temperature:	°F	-13 tot +159,8 °F			

**Maximal distance from power supply in function of number of units. (max. voltage drop 5%)**

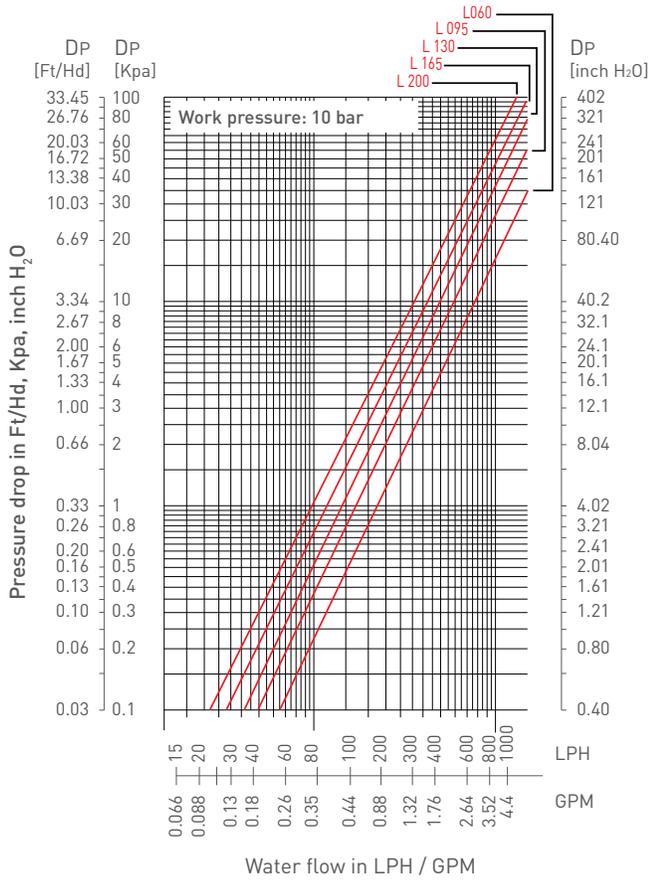
Max distance from power supply in ft.	32	65	98	131	164	197	230	262	295	328
<b>Ø</b>	<b>Type 1 (1.3W), aantal Micro Canals:</b>									
17 AWG	63	32	21	16	12	10	9	8	7	6
16 AWG	95	48	32	23	19	16	13	12	10	9
14 AWG	160	80	53	40	32	26	22	20	17	16
<b>Ø</b>	<b>Type 2 (1.7W), number Micro Canals:</b>									
17 AWG	48	24	16	12	9	8	7	6	5	4
16 AWG	73	36	24	18	14	12	10	9	8	7
14 AWG	120	60	40	30	24	20	17	15	13	12
<b>Ø</b>	<b>Type 3 (2W), number Micro Canals:</b>									
17 AWG	41	20	13	10	8	6	5	4	3	2
16 AWG	62	31	20	15	12	10	8	7	6	5
14 AWG	102	51	34	25	20	17	14	12	11	10
<b>Ø</b>	<b>Type 4 (3.4W), number Micro Canals:</b>									
17 AWG	24	12	8	6	4	3	2	1	1	1
16 AWG	36	18	12	9	7	6	5	4	3	2
14 AWG	60	30	20	15	12	10	8	7	6	5
<b>Ø</b>	<b>Type 5 (3.7W), number Micro Canals:</b>									
17 AWG	22	11	7	5	4	3	2	1	1	1
16 AWG	33	16	11	8	6	5	4	3	2	1
14 AWG	56	28	18	14	11	9	8	7	6	5



Jaga

Micro Canal

Pressure drop





**jaga**

## Micro Canal

- outer trench with height adjustment
- inner trench with fine adjustment and stainless steel grille support
- 2 end caps with stainless steel grille support
- SS grille(s)
- Low H<sub>2</sub>O heat exchanger
- tangential Fan
- protective mounting block (s) in polyethylene

### Description Micro Canal:

Pre-assembled heating unit for building into the floor, comprising a 19 gauge thick inner trench and a 17 gauge thick outer trench of galvanized steel plate, coated with a charcoal-grey scratch-proof epoxy-polyester powder coating RAL 7024, 10% gloss.

There are 3 connection openings in the outer trench for the passage of the hydraulic pipes and electric cables. These openings - in the side - are sealed with black insulation tape. Rivets are fitted in the sides for securing the inner trench. Mounting strips are supplied with the trench (also adjustable in height, max. 5.91"), which enable the trench to be anchored in the (poured) concrete.

There are 3 connection openings in the inner trench for the pass trough of the hydraulic pipes and electric cables (running through to the side and base). There are grooves in the side for anchoring to the outer trench. There are riveted joints in the floor for adjusting the height by means of bolts. The sides are equipped with a stainless steel grille support. Standard delivered with Polyethylene protective mounting block(s).

Two end caps are supplied, equipped with a stainless steel grille support and aluminium rivets with countersunk heads for finishing the ends of the inner trench

The total height is adjustable between 2.36" and 3.15", which guarantees that the unit fits flush with the finished floor. The total recess depth is a minimum of 2.36".

All components are secured with special spring steel suspension hooks, so all the parts can be removed quickly and easily for regular cleaning and maintenance without hydraulic or electrical disconnection.

### Stainless steel continuous grille

Stainless steel floor grille constructed of triangular slats positioned perpendicular on the welded supporting slats.

- profile: 1.77" x 0.08" length 49.02"
- mutual distance: 0.08"
- profiles: 3.94 x 0.08"
- material: AISI 316

### Dynamic coil:

Round, seamless circular pipes in pure copper, connected to pure aluminium fins with a spacing of 0.071" and an integrated brass collector for 1/2" NPT connection.

- including air vent
- the heat exchanger electrostatically powder coated with black epoxy-polyester, gloss degree 70%
- test pressure 360PSI
- working pressure 275PSI
- standard connection left

### Activators

One or multiple tangential fans, 24 VDC, with galvanized steel plate cover and integrated fan guard

Colour black, gloss 70%.

### Electrical connection

Integrated electric connector  
Standard connection left.

### Models

model L 60: 1 module comprising an inner trench of 23.62" x 5.12" with 1 activator and an outer duct, 23.62" x 5.28"

- model L 95: 1 module comprising an inner trench of 37.40" x 5.12" with 1 activator and an outer trench 37.40" x 5.28"
- model L 130: 1 module comprising an inner trench of 51.18" x 5.12" with 1 activator and an outer trench 51.18" x 5.28"
- model L 165: 1 module comprising an inner trench of 64.96" x 5.12" with 2 activators and an outer trench 64.96" x 5.28"
- model L 200: 1 module comprising an inner trench of 78.70" x 5.12" with 2 activators and an outer trench 78.70" x 5.28"

### How to install:

Take the following requirements into account:

- heat loss calculation made in accordance with the standard guidelines per region
- the heating elements are connected to a two-pipe system with single-sided connection
- the elements are fitted with brass collectors with 1/2"NPT connections
- install the Micro Canal with the coil side towards the exterior side of the room
- the distance between the Micro Canal and the window should allow for any curtains. Curtains should never be hung above the Micro Canal. The heating element should be accessible at all times for maintenance.

### Options:

- empty trench comprising a 0.04" thick inner trench and a 0.06" thick outer trench of galvanized steel plate, coated with an charcoal-grey scratch-proof epoxy-polyester powder coating RAL 7024, 10% gloss, with stainless steel grille. Standard delivered with Polyethylene protective mounting block(s).
- valve trench 24 VDC, length 13.78" comprising a 0.04" thick inner trench and a 0.06" thick outer trench of galvanized steel plate, coated with an charcoal-grey scratch-proof epoxy-polyester powder coating, RAL 7024, 10% gloss. Standard delivered with Polyethylene protective mounting block(s).
- 90° corner piece comprising a 0.04" thick inner trench and a 0.06" thick outer trench of galvanized steel plate, coated with an charcoal-grey scratchproof epoxy-polyester powder coating RAL 7024, 10% gloss, with stainless steel grille.
- cover plate made of galvanized steel plate varnished in colours beginning with the number 4 and colour 006.
- adjustable feet for raised or hollow floors:
  - adjustable between 1.97" till 2.76"
  - adjustable between 3.15" till 5.12"
  - adjustable between 5.12" till 9.06"
  - adjustable between 7.87" till 12.99"
- Micro Canal\_power supply 32 W / 60 W / 100W

Manufacturer: Jaga

Type: Micro Canal