



# FDL2-i Slim

The new FDL2-i Slim fan coil, with inverter technology for heating, cooling and dehumidifying. Its elegant design with only 13 cm depth makes FDL2-i Slim the perfect solution for residential applications.

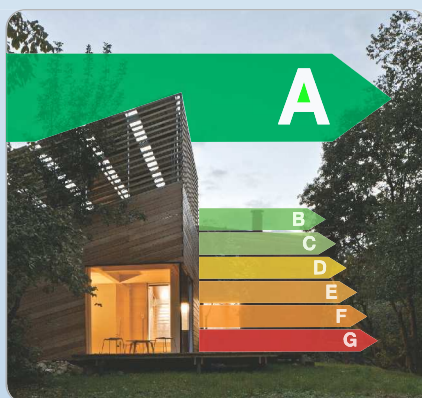
Also available with the new FDL2-i R-Slim inverter and radiant panel version.



Perfect  
comfort



Real energy  
savings



Silent  
operation



# FDL2-i Slim

The perfect synergy between elegance, comfort and costs savings

FDL2-i Slim is the new De'Longhi Professional answer to the residential comfort. It represents a new range of hydronic terminals with high performance and versatility.

## Perfect Comfort

The FDL2-i Slim fan coil is the synonym of perfect comfort and reduced energy consumption.

The brushless motor allows for a perfect adaptation to thermal load, without any temperature fluctuation. Centrifugal fans operate through continuous air flow modulation, with no speed steps or relay switching as traditional fan coil units.

FDL2-i Slim has been designed to maintain constant temperature, and minimum noise level.



## Real energy savings

The FDL2-i Slim features an electrical absorption of about 50% lower than traditional fan coil units.

High efficiency is guaranteed in any HVAC installation setup, in combination with any low temperature heat generators such as heat pumps, boilers and solar panel systems.



## Elegance

FDL2-i Slim represents an advanced solution for the requirements of modern residential and commercial architecture, even more sensible to design and aesthetics.

Designed to blend into any kind of setting and home, it features a refined design and elegance. Its particular slimness - just 13 cm deep, has been obtained thanks to the innovative layout of the ventilation unit and the heat exchanger.





## Range of products

Thanks to 4 versions with cabinet and built-in mounting, for horizontal or vertical installation, the ideal solution is guaranteed for any project.

### FDL2-i Slim / FDL2-i R-Slim

#### FDL2-i Slim DLMO



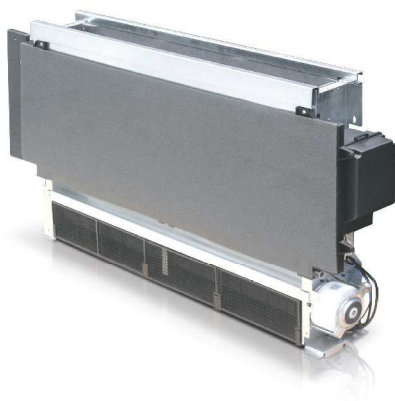
With cabinet,  
for horizontal  
installation

#### FDL2-i Slim DLMV



With cabinet,  
for vertical  
installation

#### FDL2-i Slim DLIU



Built-in version,  
for vertical/horizontal  
installation

#### FDL2-i R-Slim DLRV



With cabinet  
and radiating  
effect for  
vertical installation

### FDL2-i Slim Box



A solution to prepare already in the first stage of the construction, the positioning of FDL2-i Slim into the wall niches and render the execution of the system more rational, efficient and aesthetically harmonious.

Simplified operations on the construction sites. During the first stages of the installation, the casing for built-in

installation is placed in the wall niche and the connections are prepared. The next positioning of the fan coil is easy and can be carried out when site operations are concluded.

Thanks to its reduced thickness, FDL2-i Slim can blend easily into all types of walls and false ceilings, even not thick ones.



## Controllers

The wide range of available wall-mounted and on-board controllers, allows for a user-friendly and complete regulation of all the functions. The advanced management system with PID logic contributes to modulate the fan speed, maintaining a perfect temperature and humidity levels, reducing the sound emissions and ensuring a silent operation.



### iKS

On-board control for unit with cabinet. complete with touch keypad with 8 touch keys, LCD display with white light symbols. Modulating fan speed with PID logic, temperature regulation, winter/ summer mode, automatic mode for the speed regulation, night mode for a silent operation. Minimum water temperature probe and solenoid valve management.



### iKSW+iHBS

Remote controller for built-in and with cabinet units complete with touch keypad with 8 touch keys, LCD display with white light symbols.

Modulating fan speed with PID logic, temperature regulation, winter/summer mode, automatic mode for the speed regulation, night mode for a silent operation. Minimum water temperature probe and solenoid valve management. A maximum of 31 fancoils can be connected to the iKSW controller for open space rooms.

### ATS

On-board controller for unit with cabinet. Interface with 4 keys for the temperature selection, winter/summer mode, 4 speed regulation, display for the visualization of the room temperature. Minimum water temperature probe and solenoid valve management.

### ATW+HBS

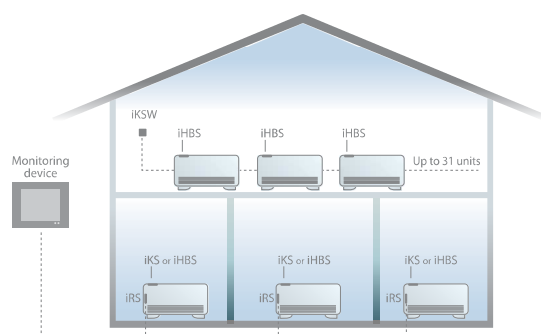
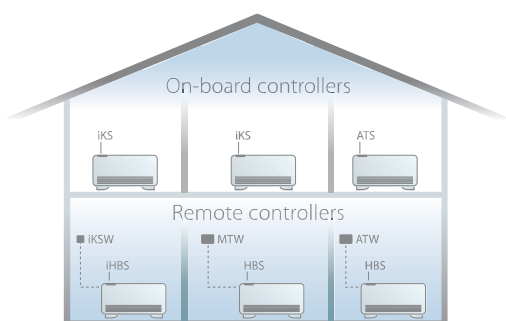
Room thermostat for built-in and with cabinet units, manual and automatic speed regulation, room probe and minimum temperature probe. Control of solenoid valves, multifunctional digital contact. Dip switch configuration. ATW control must be coupled with the HBS power board.

### iHBS

Simple on-board controller for built-in and with cabinet units to be coupled with remote controller iKSW. iHBS controller has a touch button and a LED for the visualization of the device's operation. All the parameters are set up from the iKSW.

On-board and remote controllers, stand alone configuration

On-board and remote controllers, multiple connections and monitoring devices





# Technical data

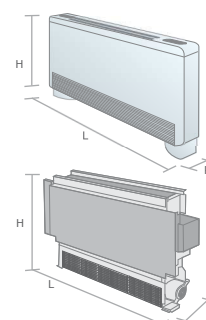
Model			FDL2-i Slim 102			FDL2-i Slim 202			FDL2-i Slim 302			FDL2-i Slim 402			FDL2-i Slim 502			
			DLM	DLRV	DLI	DLM	DLRV	DLI	DLM	DLRV	DLI	DLM	DLRV	DLI	DLM	DLRV	DLI	
Total cooling capacity		(a)	kW	0,842	0,842	0,842	1,786	1,786	1,786	2,690	2,690	2,690	3,390	3,390	3,390	3,857	3,857	3,857
Sensible cooling capacity			kW	0,629	0,629	0,629	1,289	1,289	1,289	1,989	1,989	1,989	2,690	2,690	2,690	3,055	3,055	3,055
Water flow			l/h	145	145	145	307	307	307	463	463	463	583	583	583	663	663	663
Water pressure drop			kPa	7,2	7,2	7,2	8,4	8,4	8,4	22,5	22,5	22,5	18,6	18,6	18,6	24,9	24,9	24,9
Heating capacity with 50°C water inlet		(b)	kW	1,106	1,167	1,106	2,385	2,497	2,385	3,238	3,461	3,238	4,162	4,466	4,162	4,933	5,278	4,933
Water flow (50 °C water at inlet)			l/h	190	201	190	410	429	410	557	595	557	716	768	716	848	908	848
Water pressure drop (50°C water at inlet)			kPa	5,7	6,5	5,7	6,6	7,5	6,6	16,3	20,2	16,3	14	16,7	14	18,3	22,4	18,3
Heating capacity without ventilation (50°C)			kW	0,213	0,325	0,213	0,251	0,386	0,251	0,295	0,467	0,295	0,371	0,558	0,371	0,456	0,670	0,456
Heating capacity with 70°C water inlet DT 10		(c)	W	1,918	2,050	1,918	4,050	4,212	4,050	5,552	5,887	5,552	7,085	7,613	7,085	8,425	8,729	8,425
Water flow (70°C DT 10)			l/h	330	353	330	697	725	697	955	1013	955	1219	1309	1219	1449	1501	1449
Water pressure drop (70°C DT 10)			kPa	6,7	7,2	6,7	7,6	8,2	7,6	16,1	21,2	16,1	14	17,7	14	19,8	23,8	19,8
Heating capacity without ventilation (70°C)			W	0,327	0,548	0,327	0,385	0,680	0,385	0,454	0,792	0,454	0,571	0,934	0,571	0,700	1,096	0,700
AERAULIC DATA																		
Maximum airflow		(d)	m³/h	162	162	162	320	320	320	461	461	461	576	576	576	648	648	648
Airflow at medium speed (AUTO mode)			m³/h	113	113	113	252	252	252	367	367	367	453	453	453	494	494	494
Airflow at minimum ventilation speed			m³/h	55	55	55	155	155	155	248	248	248	370	370	370	426	426	426
Power absorbed at maximum speed			W	12	13	12	18	19	18	20	21	20	27	28	27	30	31	30
Power absorbed at minimum speed			W	4	5	4	5	6	5	5	6	5	6	7	6	6	7	6
SOUND POWER LEVEL																		
Sound level at maximum speed		(g)	dB(A)	50,4	50,4	50,4	51,2	51,2	51,2	53,2	53,2	53,2	53,5	53,5	53,5	54,9	54,9	54,9
Sound level at minimum speed		(g)	dB(A)	35,2	35,2	35,2	36,3	36,3	36,3	36,6	36,6	36,6	37,3	37,3	37,3	38,6	38,6	38,6
DIMENSIONS AND WEIGHTS																		
Width		L	mm	720	720	525	920	920	725	1120	1120	925	1320	1320	1125	1520	1520	1325
Height (without support feet)		H	mm	579	579	579	579	579	579	579	579	579	579	579	579	579	579	579
Depth		P	mm	131	131	126	131	131	126	131	131	126	131	131	126	131	131	126
Net Weight			Kg	17	17,3	9	20	20,4	12	23	23,4	15	26	26,4	18	29	29,4	21

## Data referred to:

- (a) Water temperature at battery inlet 7°C, Water temperature at battery outlet 12°C, ambient air temperature 27°C b.s. e 19°C b.u.  
 (b) Water temperature at battery inlet 50°C, water temperature with thermal variation 5°C, ambient air temperature 20°C  
 (c) Water temperature at battery inlet 70°C, Water temperature at battery outlet 60°C, ambient air temperature 20°C  
 (d) Airflow measured with clean filters  
 (g) Sound level measured in semianechoic chamber in compliance with ISO 7779  
 (\*) Cooling mode air flow. The heating air flow is 20 m³/h higher for "102" size and 40 m³/h higher for all the other sizes.

## Main accessories:

- 2 way and 3 way valves
- Fitting for air intake in built-in installation
- Telescopic air flow duct and 90° duct for false ceiling and build-in installation
- Alluminium air flow vent for wall mounting
- Air intake grille
- UVC air sterilisation device
- Casing for build-in version - FDL2-i Slim Box
- Casing cover panel with frame and front panel grid



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