DeLonghi Professional

Technical Bulletin

FDL2_I_SLIM_0202_1004_201306_EN

(The photo of the unit is purely indicative and may vary depending on the model)

FDL2-i SLIM

Fan-coil for professional applications, with cabinet or built-in version, powered by EC Brushless Centrifugal Fan

- Configuration
- User frendly
- Full integration
- Real savings

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

COOLING

HEATING

SUMMARY

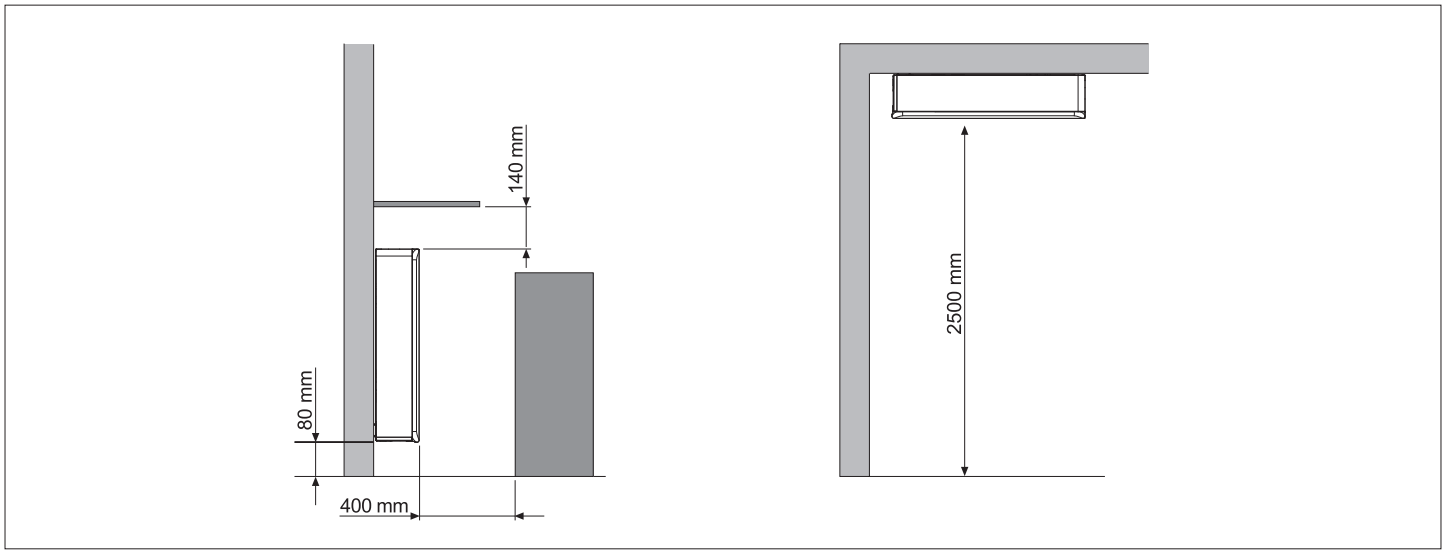
1. RANGE

WITH CABINET MODEL

FDL2-i SLIM DLMV
fan coil with painted metal casing (suitable for vertical installation)

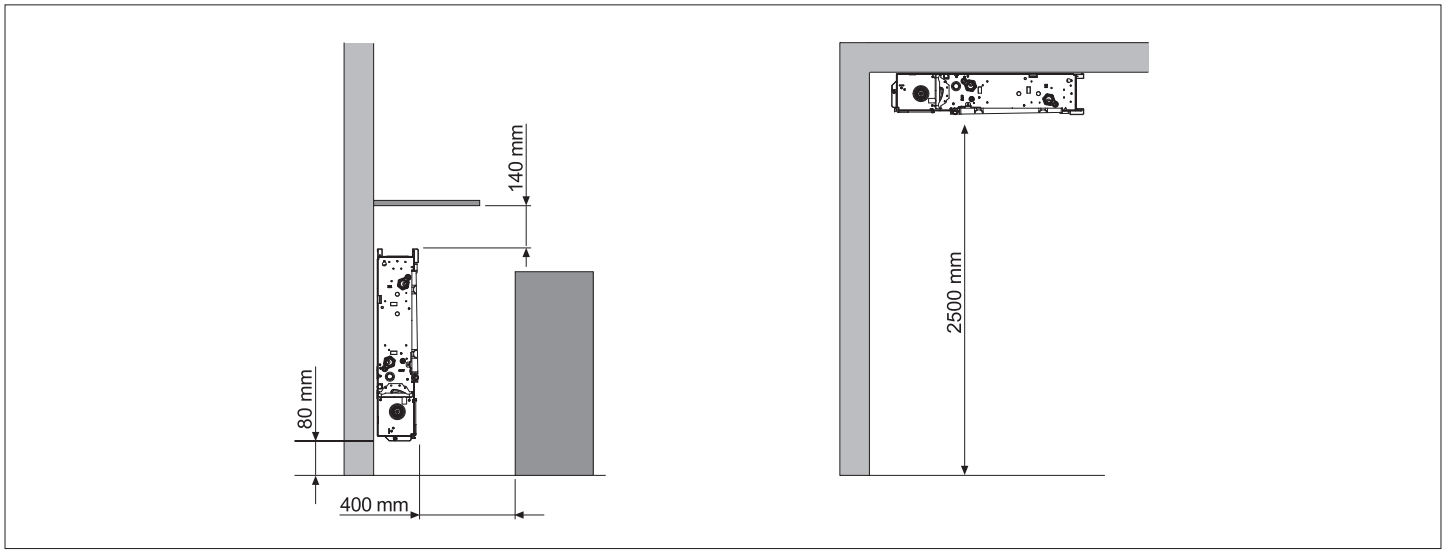
FDL2-i SLIM DLMO
fan coil with painted metal casing (suitable for horizontal installation)

FDL2-i SLIM DLRV
fan coil with painted metal casing with radiant effect (suitable for vertical installation only)



CONCEALED MODEL

FDL2-i SLIM DLIU
built-in fan coil without panelling (suitable for built-in horizontal or vertical installations)



2. GENERAL DESCRIPTION

FDL2-i SLIM is the new De' Longhi Professional fan coil with inverter technology for heating, cooling and dehumidification.
The FDL2-i SLIM units feature a harmonious design, measuring just 13 cm in depth, for installation in residential environments.
The units have tangential fans with asymmetrical blades, while the heat exchanger has a large front surface area to ensure high air flow with low pressure drop.
Continuous DC motor speed control allows unit operation to adapt perfectly to indoor load, guaranteeing very low noise while maintaining the set temperature.
In heating mode, the FDL2-i SLIM version with DLRV radiant panel provides effective natural convective heating (similar to a radiator), significantly reducing the need for fan operation.
The operating principle is based on the activation, in heating mode, of miniature fans with very low energy consumption and extremely low noise that can deliver warm air from the heat exchanger to the inside of the unit's front panel, ensuring effective heating.
This principle allows the terminal to deliver significant heating capacity without the fan operating.
Consequently, the comfort temperature can be maintained with negligible movement of air and with the unit operating in complete silence.
In cooling operation, the air flow generated by the miniature fans is stopped to prevent dew forming on the front surface of the terminal.
Structure made from thick galvanised sheet metal for optimum protection against corrosion.
Cabinet made from galvanised sheet metal with epoxy powder coating, combined with plastic side profiles.
The unit is managed using the latest generation control units, featuring PID (proportional-integral) control to ensure undisputed advantages in terms of temperature and humidity control.
Options available include the iKS and ATS on-board control units, and iKSW and ATW remote control units with iHBS (in combination with the iKSW control unit) and HBS (in combination with the control ATW and ATS control units) board installed on the unit.

FDL2-i SLIM DLMV
version with cabinet, low air intake, vertical installation

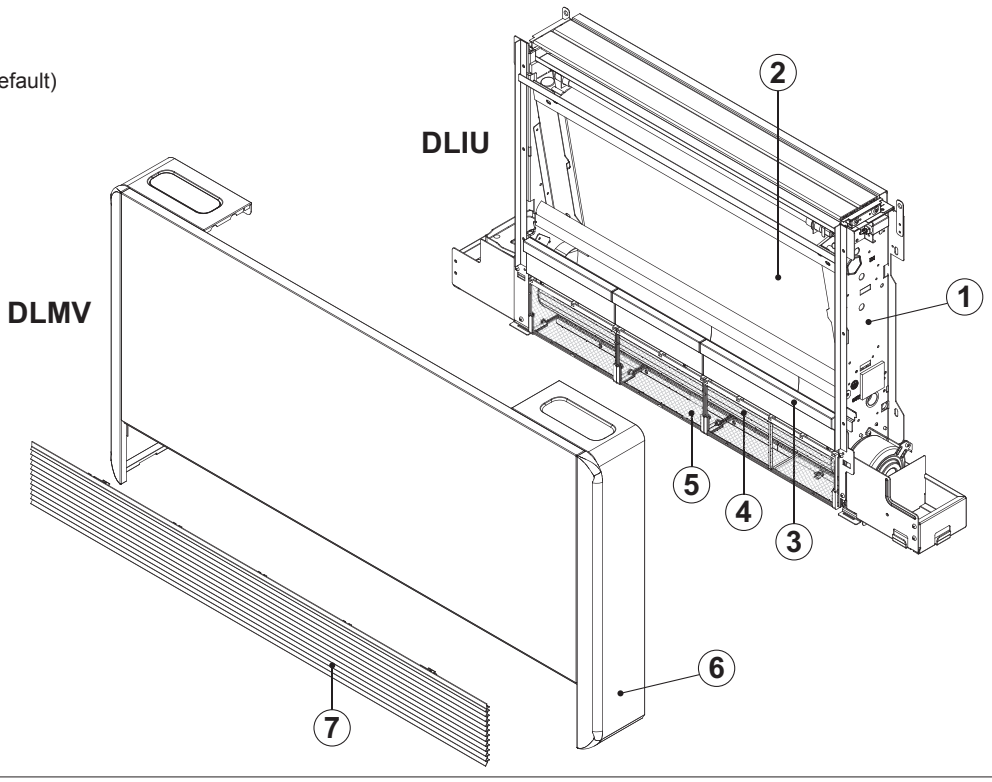
FDL2-i SLIM DLMO
version with cabinet, low air intake, horizontal installation

FDL2-i SLIM DLRV
version with cabinet, low air intake with radiant effect, vertical installation

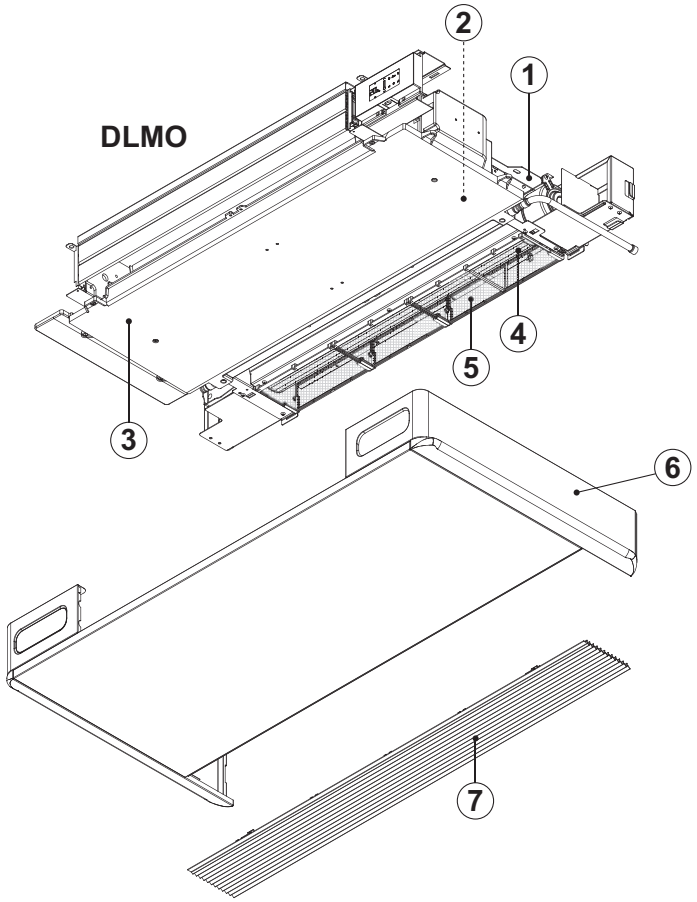
FDL2-i SLIM DLIU
version with cabinet, low air intake, universal installation

Cooling capacity from 0.842 to 3.85 kW.
Heating capacity from 1.106 to 4.93 kW.
Water fittings reversible on site as standard.

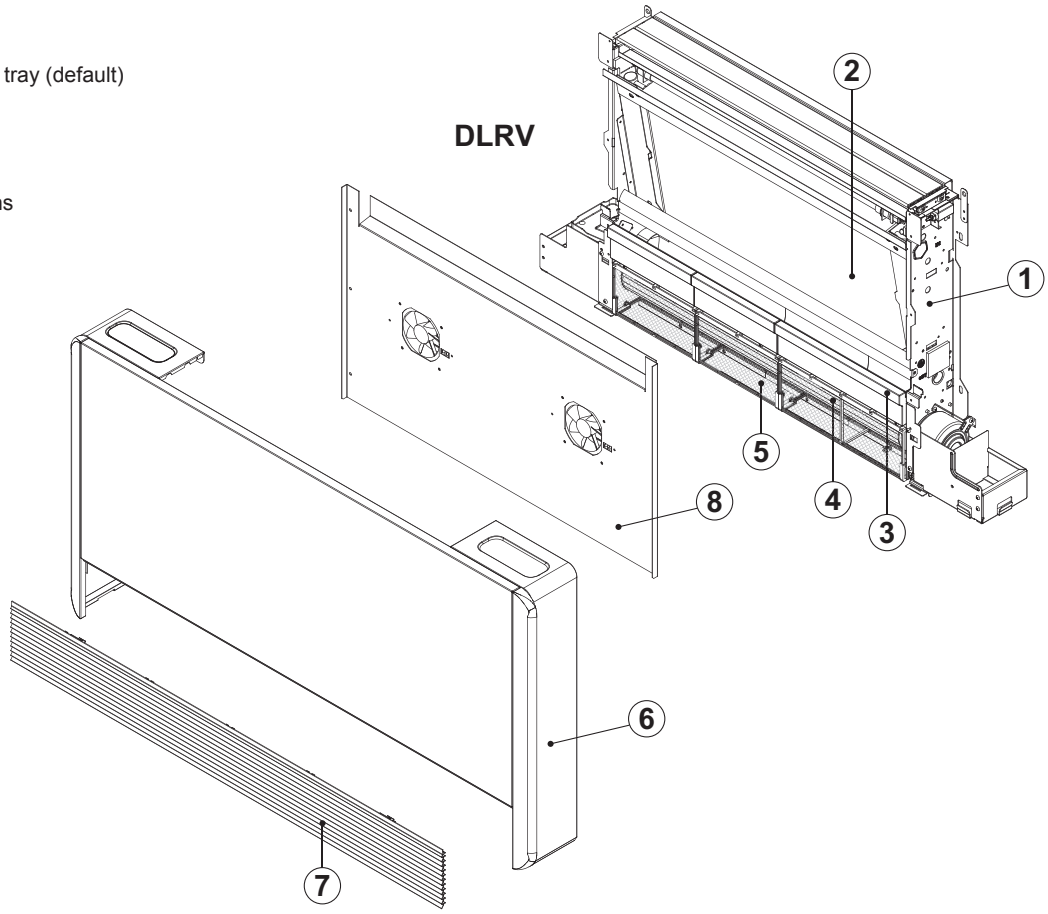
1 Bearing structure
2 Heat exchanger
3 Universal condensate collecting tray (default)
4 Tangential fan assembly
5 Filter
6 Cabinet for DLMV
7 Air intake grill



1 Bearing structure
2 Heat exchanger
3 Condensate collection pan for horizontal installation
4 Tangential fan assembly
5 Filtro
6 Cabinet
7 Air intake grill



1 Bearing structure
2 Heat exchanger
3 Universal condensate collecting tray (default)
4 Tangential fan assembly
5 Filter
6 Cabinet
7 Air intake grill
8. Radiant panel with miniature fans



3. ACCESSORIES COMPATIBILITY

DESCRIPTION	FDL2-i SLIM			
	DLIU	DLMO	DLMV	DLRV
Horizontal pan kit for unit ceiling installation, FDL2-i SLIM DLMO 102		√		
Horizontal pan kit for unit ceiling installation, FDL2-i SLIM DLMO 202		√		
Horizontal pan kit for unit ceiling installation, FDL2-i SLIM DLMO 302		√		
Horizontal pan kit for unit ceiling installation, FDL2-i SLIM DLMO 402		√		
Horizontal pan kit for unit ceiling installation, FDL2-i SLIM DLMO 502		√		
iKS on-board PID electronic controller kit for DC motors (2-pipe units)		√	√	√
iHBS PID electronic board kit for wall-mounted remote control (2-pipe units)	√	√	√	√
iKSW remote control kit with room temperature probe (2-pipe units)	√	√	√	√
ATS on-board electronic controller kit for 4-speed DC motors		√	√	√
Kit ATW Remote control a 3 speed in combination a board HBS	√	√	√	√
HBS control board kit for 4-speed DC motors (traditional thermostats)	√	√	√	√
RS485 bridge	√	√	√	√
Pair of adapters for flat gasket	√	√	√	√
CABLE - motor connection kit for units with fittings on R	√	√	√	√
3-way valve assembly WITHOUT balance and WITH thermoelectric motor	√	√	√	√
Manual 2-way VALVE assembly	√	√	√	√
Motorised 2-way VALVE assembly	√	√	√	√
Feet for anchoring the unit to floor, white RAL 9003			√	√
Feet for covering pipes in floor-standing units, white RAL 9003			√	√
Cosmetic rear panel, white RAL 9003 for FDL2-i SLIM 102			√	√
Cosmetic rear panel, white RAL 9003 for FDL2-i SLIM 202			√	√
Cosmetic rear panel, white RAL 9003 for FDL2-i SLIM 302 fan coil			√	√
Cosmetic rear panel, white RAL 9003 for FDL2-i SLIM 402 fan coil			√	√
Cosmetic rear metal panel, white RAL 9003 for FDL2-i SLIM 502 fan coil			√	√
Air intake plenum for FDL2-i SLIM DLIU 102	√			
Air intake plenum for FDL2-i SLIM DLIU 202	√			
Air intake plenum for FDL2-i SLIM DLIU 302	√			
Air intake plenum for FDL2-i SLIM DLIU 402	√			
Air intake plenum for FDL2-i SLIM DLIU 502	√			
Telescopic air outlet duct for FDL2-i SLIM DLIU 102	√			
Telescopic air outlet duct for FDL2-i SLIM DLIU 202	√			
Telescopic air outlet duct for FDL2-i SLIM DLIU 302	√			
Telescopic air outlet duct for FDL2-i SLIM DLIU 402	√			
Telescopic air outlet duct for FDL2-i SLIM DLIU 502	√			
Air outlet duct with 90° bend for FDL2-i SLIM DLIU 102	√			
Air outlet duct with 90° bend for FDL2-i SLIM DLIU 202	√			
Air outlet duct with 90° bend for FDL2-i SLIM DLIU 302	√			
Air outlet duct with 90° bend for FDL2-i SLIM DLIU 402	√			
Air outlet duct with 90° bend for FDL2-i SLIM DLIU 502	√			
Aluminium outlet with two rows of louvers for FDL2-i SLIM DLIU 102	√			
Aluminium outlet with two rows of louvers for FDL2-i SLIM DLIU 202	√			
Aluminium outlet with two rows of louvers for FDL2-i SLIM DLIU 302	√			
Aluminium outlet with two rows of louvers for FDL2-i SLIM DLIU 402	√			
Aluminium outlet with two rows of louvers for FDL2-i SLIM DLIU 502	√			

3. ACCESSORIES COMPATIBILITY

DESCRIPTION	FDL2-i SLIM			
	DLIU	DLMO	DLMV	DLRV
Aluminium intake grill with straight profile for FDL2-i SLIM DLIU 102	√			
Aluminium intake grill with straight profile for FDL2-i SLIM DLIU 202	√			
Aluminium intake grill with straight profile for FDL2-i SLIM DLIU 302	√			
Aluminium intake grill with straight profile for FDL2-i SLIM DLIU 402	√			
Aluminium intake grill with straight profile for FDL2-i SLIM DLIU 502	√			
Air sterilisation device with UVC lamp for FDL2-i SLIM 102	√	√	√	√
Air sterilisation device with UVC lamp for FDL2-i SLIM 202	√	√	√	√
Air sterilisation device with UVC lamp for FDL2-i SLIM 302	√	√	√	√
Air sterilisation device with UVC lamp for FDL2-i SLIM 402	√	√	√	√
Air sterilisation device with UVC lamp for FDL2-i SLIM 502	√	√	√	√
Galvanised sheet metal structure for built-in installation, FDL2-i SLIM DLIU 102	√			
Galvanised sheet metal structure for built-in installation, FDL2-i SLIM DLIU 202	√			
Galvanised sheet metal structure for built-in installation, FDL2-i SLIM DLIU 302	√			
Galvanised sheet metal structure for built-in installation, FDL2-i SLIM DLIU 402	√			
Galvanised sheet metal structure for built-in installation, FDL2-i SLIM DLIU 502	√			
Cosmetic cover panel with frame and intake grill for FDL2-i SLIM DLIU 102, white RAL 9003	√			
Cosmetic cover panel with frame and intake grill for FDL2-i SLIM DLIU 202, white RAL 9003	√			
Cosmetic cover panel with frame and intake grill for FDL2-i SLIM DLIU 302, white RAL 9003	√			
Cosmetic cover panel with frame and intake grill for FDL2-i SLIM DLIU 402, white RAL 9003	√			
Cosmetic cover panel with frame and intake grill for FDL2-i SLIM DLIU 502, white RAL 9003	√			
Cosmetic ceiling cover panel with frame and intake grill for FDL2-i SLIM DLIU 102, white RAL 9003	√			
Cosmetic ceiling cover panel with frame and intake grill for FDL2-i SLIM DLIU 202, white RAL 9003	√			
Cosmetic ceiling cover panel with frame and intake grill for FDL2-i SLIM DLIU 302, white RAL 9003	√			
Cosmetic ceiling cover panel with frame and intake grill for FDL2-i SLIM DLIU 402, white RAL 9003	√			
Cosmetic ceiling cover panel with frame and intake grill for FDL2-i SLIM DLIU 502, white RAL 9003	√			

4. UNIT DESCRIPTION

FDL2-i SLIM DLMO/DLMV/DLRV

Covering cabinet
Comprising components made from ABS for the sides and thick coated sheet metal for the front panel.

Bearing structure
Thick electro-galvanised sheet metal structure with high corrosion resistance.
For the DLMO units with horizontal installation, the condensate collection pan is required for operation in cooling mode.
Electro-galvanised sheet metal cover cabinet with RAL9003 oven-cured epoxy powder coat.

Heat exchange
Coil with corrugated aluminium fins and copper pipes.
All units are delivered with left-hand water connections, easily convertible into right-hand by simply turning the coil.

Fan motor
Tangential fan with staggered blades to ensure very low noise, fitted on EPDM vibration dampers.
Statically and dynamically balanced impeller, coupled directly to the motor shaft.

Air filter
Polypropylene honeycomb air filter, regenerable by washing in water or blowing with air. Class G1 in accordance with EN779.

FDL2-i SLIM DLIU

Bearing structure
Thick electro-galvanised sheet metal structure with high corrosion resistance.
The reduced depth means the units can be installed even in narrow walls and false-ceilings.
The extremely low noise makes the units the ideal solution for air-conditioning all types of rooms, especially bedrooms in private homes and hotels.
A wide range of accessories is available to allow every type of installation in combination with different systems.
The units are fitted as standard with double condensate collection pan for both horizontal and vertical installation.
The front cover panel for the built-in structure is available in both the wall-mounted and ceiling-hung version.
The front panel allows the air filter to cleaned easily by removing the front grill, as well as easy access to the terminal for maintenance.

Heat exchange
Coil with corrugated aluminium fins and copper pipes.
Eurokonus threaded fittings. The coil is fitted with a sensor for measuring the water temperature.

Fan motor
Tangential fan with staggered blades to ensure very low noise, fitted on EPDM vibration dampers..
Statically and dynamically balanced impeller, coupled directly to the motor shaft.

Air filter
Polypropylene honeycomb air filter, regenerable by washing in water or blowing with air. Class G1 in accordance with EN779.

5. OPERATING LIMITS

Operating mode	Room air temperature		Water inlet temperature	
	Min	Max	Min	Max
Cooling / Heating °C	5	32	4	80

Maximum water pressure 1,000 kPA

⚠ For correct operation, the fan coil must only be used within the range of temperatures specified in the table. If the unit is operated outside of these limits, malfunctions or pressure drop may occur.

6. TECHNICAL DATA SHEET

FDL2-i SLIM / DLMO - DLMV			102	202	302	402	502
ELECTRICAL DATA							
Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max absorbd power		W	18	27	35	35	37
2 PIPES SYSTEM CONFIGURATION							
MAX SPEED							
Air flow		m³/h	162	320	461	576	648
Total capacity in cooling mode	(1)	kW	0,84	1,79	2,69	3,39	3,86
Sensible capacity in cooling mode	(1)	kW	0,63	1,29	1,99	2,69	3,06
Max water flow	(1)	m³/h	0,145	0,308	0,463	0,584	0,664
Mad pressure drop	(1)	kPa	7,4	5,5	22,6	19,1	25,0
Total capacity in heating mode	(2)	kW	1,12	2,38	3,29	4,19	4,96
Water flow in heating	(2)	m³/h	0,145	0,308	0,458	0,583	0,666
Pressure drop in heating	(2)	kPa	7,4	5,5	22,1	19,0	25,1
Noise Pressure	(3)	dB(A)	41	42	44	45	46
Noise Power	(4)	dB(A)	50	51	53	54	55
MED SPEED							
Air flow		m³/h	113	252	367	453	494
Total capacity in cooling mode	(1)	kW	0,71	1,57	2,26	2,82	3,12
Sensible capacity in cooling mode	(1)	kW	0,53	1,15	1,75	2,12	2,38
Max water flow	(1)	m³/h	0,122	0,271	0,390	0,486	0,536
Mad pressure drop	(1)	kPa	5,3	4,3	16,3	13,4	15,9
Total capacity in heating mode	(2)	kW	0,91	2,04	2,76	3,49	4,04
Water flow in heating	(2)	m³/h	0,122	0,271	0,389	0,486	0,536
Pressure drop in heating	(2)	kPa	5,2	4,3	16,3	13,4	15,9
Noise Pressure	(3)	dB(A)	35	36	36	37	40
Noise Power	(4)	dB(A)	44	45	45	46	49
MIN SPEED							
Air flow		m³/h	55	155	248	370	426
Total capacity in cooling mode	(1)	kW	0,37	1,07	1,47	2,42	2,73
Sensible capacity in cooling mode	(1)	kW	0,27	0,76	1,21	1,82	2,09
Max water flow	(1)	m³/h	0,063	0,183	0,253	0,416	0,470
Mad pressure drop	(1)	kPa	1,4	2,0	7,3	9,9	12,0
Total capacity in heating mode	(2)	kW	0,39	1,40	1,82	3,00	3,59
Water flow in heating	(2)	m³/h	0,062	0,183	0,254	0,417	0,470
Pressure drop in heating	(2)	kPa	1,4	2,0	7,3	10,0	12,0
Noise Pressure	(3)	dB(A)	26	27	27	28	30
Noise Power	(4)	dB(A)	35	36	36	37	39
SIZE AND WEIGHT							
A	(5)	mm	737	937	1137	1337	1537
B	(5)	mm	131	131	131	131	131
H	(5)	mm	579	579	579	579	579
Operating weight	(5)	kg	17	20	23	26	29

Notes:

1 Room temperature 27°C d.b./19°C w.b.; Chilled water (in/out) 7/12°C
2 Room temperature 20°C d.b.; Hot water (in/out) 50/* °C (with identical flow note1)
3 Sound pressure in semianechoic room at 1 (m.) from fan front and 1 (m.) from the ground
4 Sound power on the basis of measurements made in compliance with Eurovent 8/2.
5 Unit in standard configuration/execution, without optional accessories.

6. TECHNICAL DATA SHEET

FDL2-i SLIM / DLIU			102	202	302	402	502
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Power supply		V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
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Noise Power	(4)	dB(A)	35	36	36	37	39
SIZE AND WEIGHT							
A	(5)	mm	525	725	925	1125	1325
B	(5)	mm	126	126	126	126	126
H	(5)	mm	576	576	576	576	576
Operating weight	(5)	kg	9	12	15	18	21

Notes:

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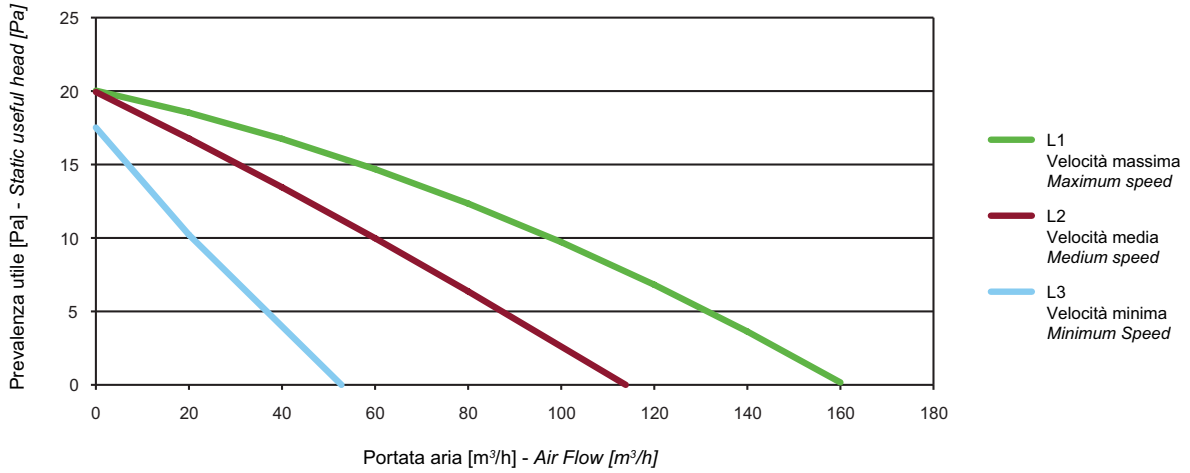
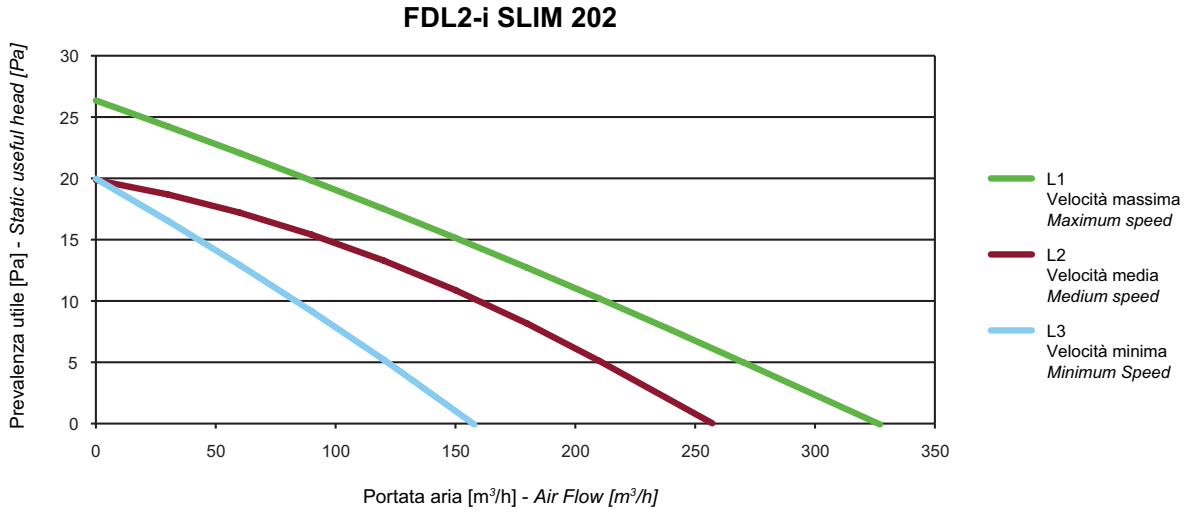
5 Unit in standard configuration/execution, without optional accessories.

7. FAN PERFORMANCES CURVES

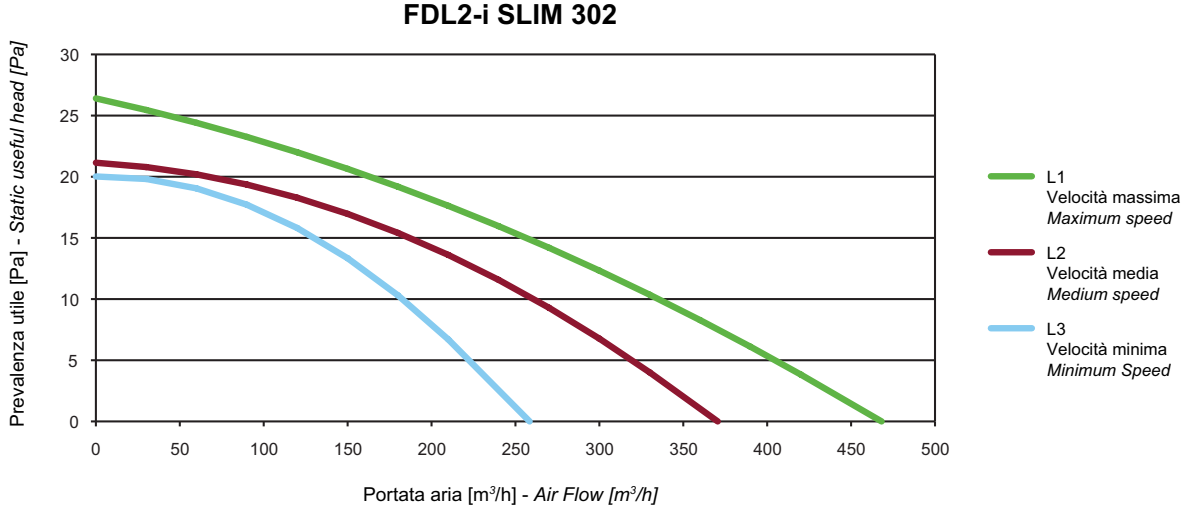
FDL2-i SLIM 102



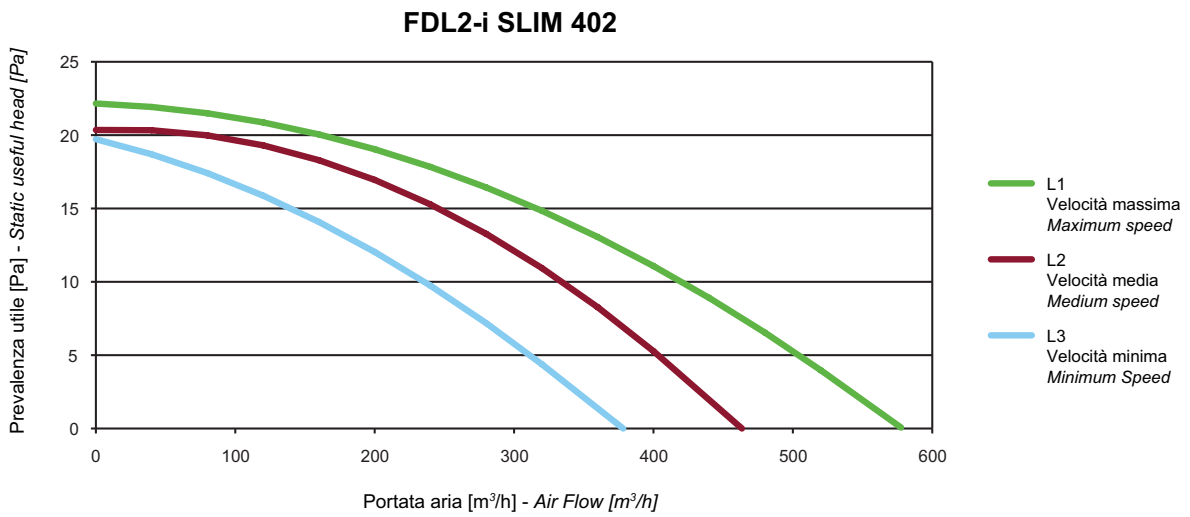
FDL2-i SLIM 202

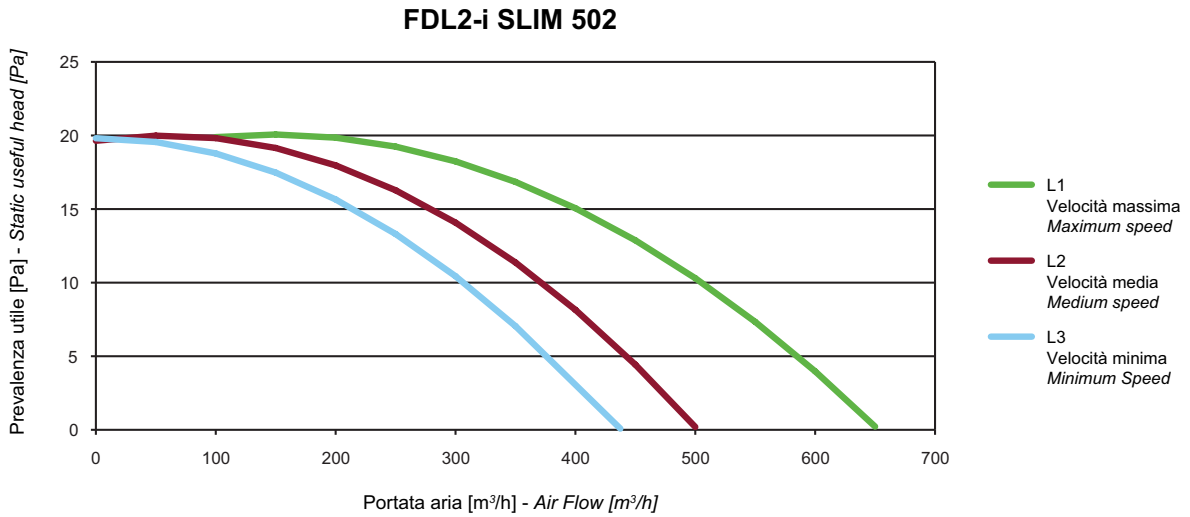


FDL2-i SLIM 302

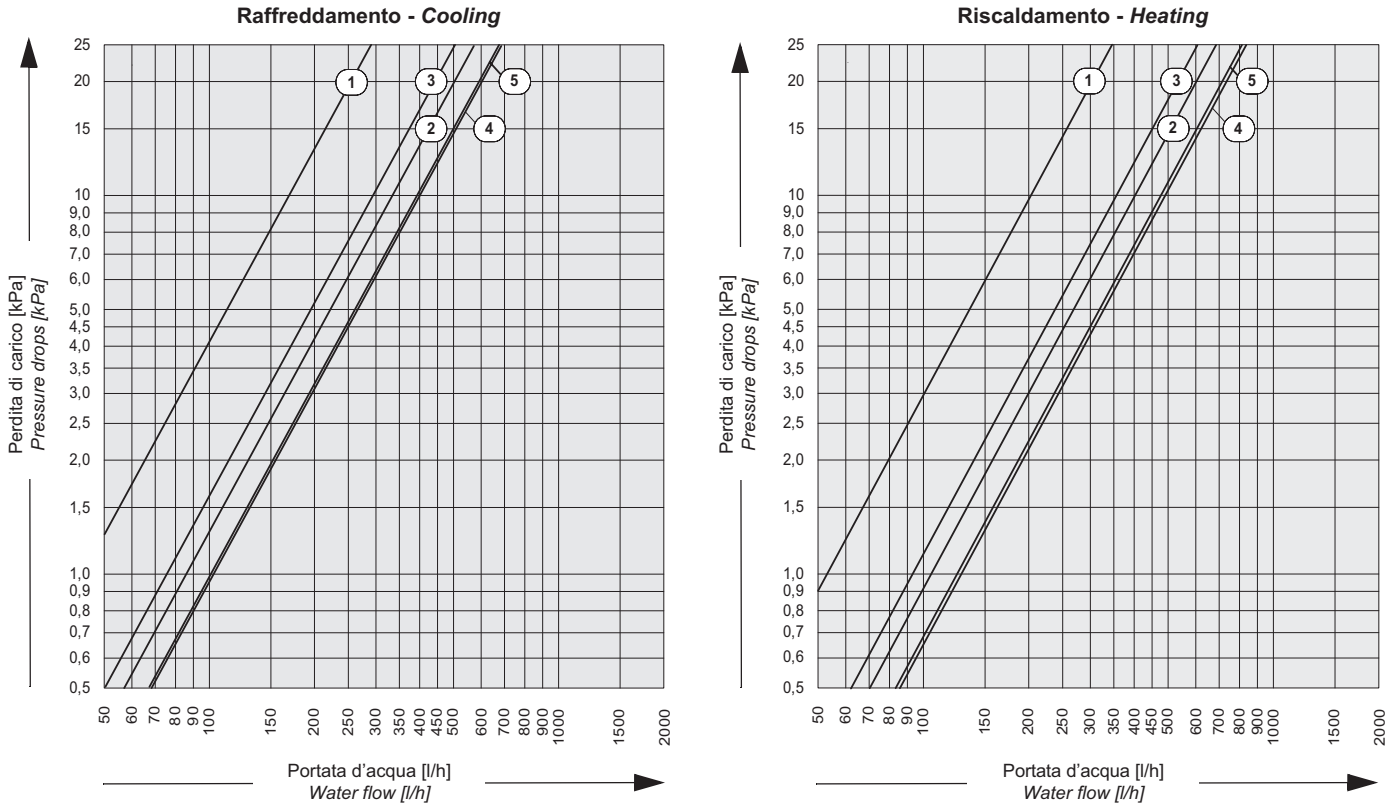


7. FAN PERFORMANCES CURVES





8. PRESSURE DROP



1 FDL2-i SLIM 102 **2** FDL2-i SLIM 202 **3** FDL2-i SLIM 302 **4** FDL2-i SLIM 402 **5** FDL2-i SLIM 502

9. SOUND PRESSURE LEVEL

Model		FDL2-i SLIM 102			FDL2-i SLIM 202			FDL2-i SLIM 302			FDL2-i SLIM 402			FDL2-i SLIM 502		
		DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI
Sound pressure at maximum air flow	dB(A)	41	41	41	42	42	42	44	44	44	45	45	45	46	46	46
Sound pressure at medium air flow	dB(A)	35	35	35	36	36	36	36	36	36	37	37	37	40	40	40
Sound pressure at minimum air flow	dB(A)	26	26	26	27	27	27	27	27	27	28	28	28	30	30	30

Sound pressure in semianechoic room at 1 (m.) from fan front and 1 (m.) from the ground

FDL2-i SLIM 102		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
dB(A)	Minimum speed	39,5	25,8	23,9	18,3	11,6	12,0	13,0
	Medium speed	39,9	34,7	32,5	30,8	24,9	17,8	13,4
	Maximum speed	40,5	36,6	38,7	37,7	32,5	26,2	16,6

FDL2-i SLIM 202		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
dB(A)	Minimum speed	32,1	26,8	26,8	20,8	14,6	10,2	10,5
	Medium speed	34,8	34,1	34,3	31,7	25,6	18,0	13,1
	Maximum speed	34,0	36,9	38,6	39,6	33,4	26,8	16,6

FDL2-i SLIM 302		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
dB(A)	Minimum speed	32,3	25,5	26,8	21,6	14,5	9,0	9,2
	Medium speed	37,6	33,2	34,7	32,0	26,0	18,5	12,7
	Maximum speed	41,8	39,6	40,4	41,1	36,0	29,5	19,2

FDL2-i SLIM 402		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
dB(A)	Minimum speed	26,0	28,7	25,1	24,7	12,5	9,3	12,9
	Medium speed	30,0	35,1	35,7	32,4	25,9	19,0	17,3
	Maximum speed	39,1	41,1	40,5	43,0	36,0	29,2	20,1

FDL2-i SLIM 502		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
dB(A)	Minimum speed	36,8	30,4	29,5	24,3	16,3	11,8	14,4
	Medium speed	39,3	38,6	38,1	36,1	29,8	22,8	17,6
	Maximum speed	43,9	42,2	41,3	44,0	36,7	30,6	20,7

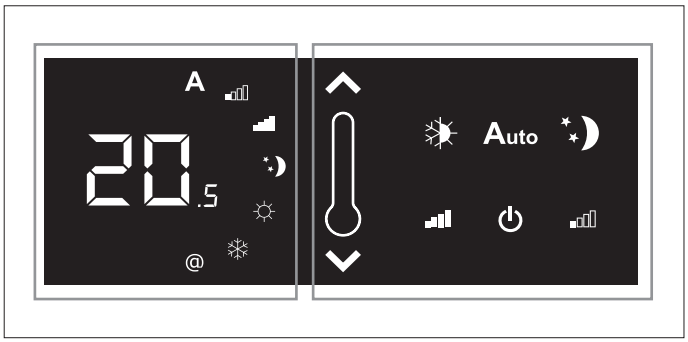
10. SOUND POWER LEVEL

Modello		FDL2-i SLIM 102			FDL2-i SLIM 202			FDL2-i SLIM 302			FDL2-i SLIM 402			FDL2-i SLIM 502		
		DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI	DLMV/O	DLRV	DLI
Max speed sound power	dB(A)	50	50	50	51	51	51	53	53	53	54	54	54	55	55	55
Med speed sound power	dB(A)	44	44	44	45	45	45	45	45	45	46	46	46	49	49	49
Min speed sound power	dB(A)	35	35	35	36	36	36	36	36	36	37	37	37	39	39	39

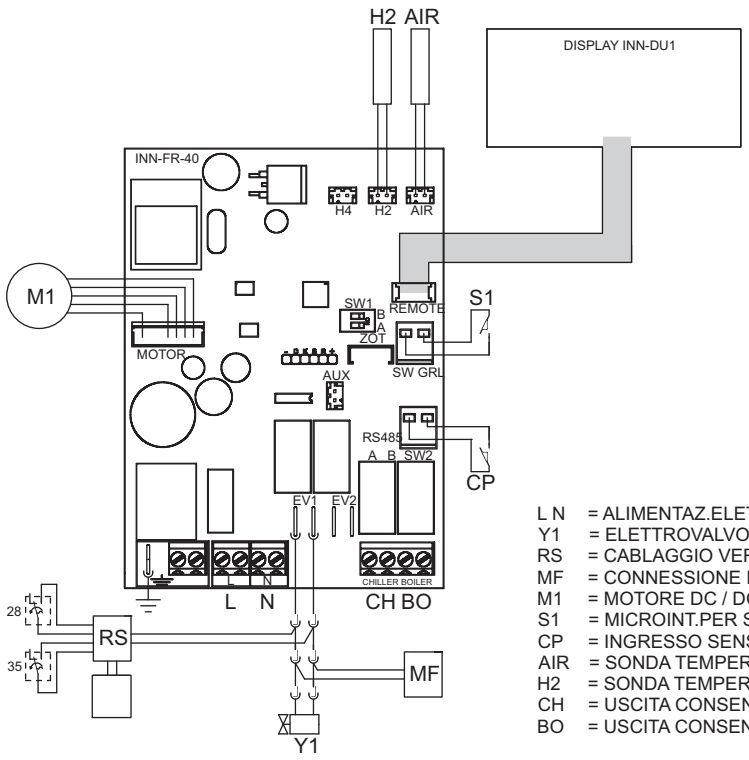
Sound power on the basis of measurements made in compliance with Eurovent 8/2

11. FANCOIL CONTROLS

iKS On-board electronic controller for units with casing
This controller ensures completely independent room temperature control, in AUTO, SILENT, NIGHT-TIME and MAX operating modes, using a probe located at the bottom of the appliance, guaranteeing frost protection even when in standby.
The temperature can be set in the range from 16 to 28°C, however off-scale values of 5°C and 40°C are also allowed.



Electrical connections



L N = ALIMENTAZ.ELETTRICA 230V-50Hz / 230V-50Hz ELECTRICAL SUPPLY
Y1 = ELETTROVALVOLA ACQUA / WATER ACTUATOR
RS = CABLAGGIO VERSIONE RS/RS VERSION CONNECTION
MF = CONNESSIONE FLAP MOBILE/MOBILE FLAP CONNECTION
M1 = MOTORE DC / DC FAN MOTOR
S1 = MICROINT.PER SICUREZZA GRIGLIA / GRILL SAFETY MICROSWITCH
CP = INGRESSO SENSORE PRESENZA / PRESENCE CONTACT INPUT
AIR = SONDA TEMPERATURA ARIA / AIR TEMPERATURE PROBE
H2 = SONDA TEMPERATURA ACQUA / WATER TEMPERATURE PROBE
CH = USCITA CONSENSO CHILLER (1A) / CHILLER CONTACT OUTPUT (1A)
BO = USCITA CONSENSO BOILER (1A) / BOILER CONTACT OUTPUT (1A)

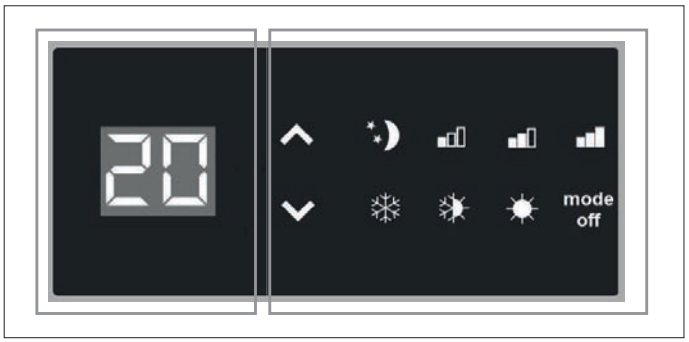
11. FANCOIL CONTROLS

ATS On-board LCD electronic controller with 4-speed operation

This controller ensures completely independent room temperature control, allowing set point selection in the range from 5 to 40°C, 4-speed operation and cooling/heating mode.

Being connected to the probe that measures the water temperature inside the coil, the signal to activate the fan is enabled when reaching a suitable water temperature.

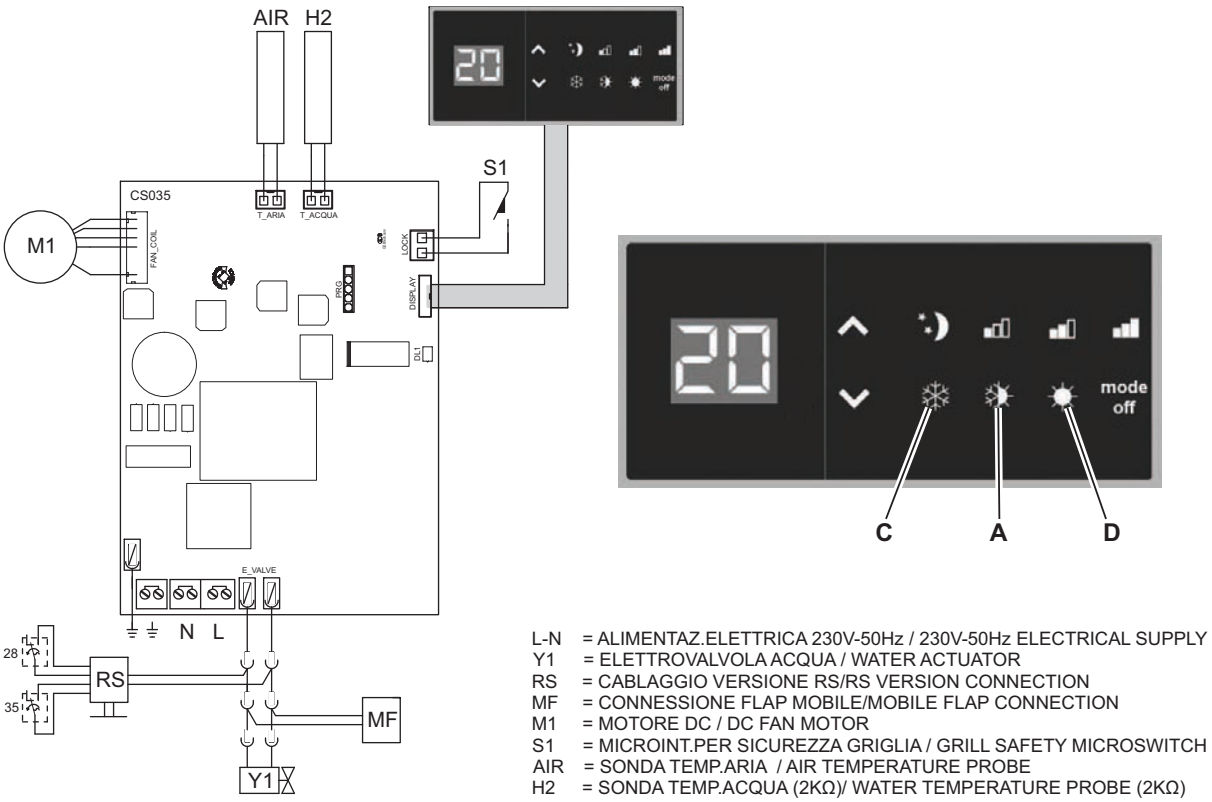
(below 20° in cooling and above 30° in heating).



Electrical connections

H2	water temperature probe
M1	DC inverter fan motor
S1	grill safety microswitch
Y1	water actuator (230V/50Hz 1A)

L-N	230V/50Hz electrical supply
DLRV	DLRV version connection
AIR	air temperature probe

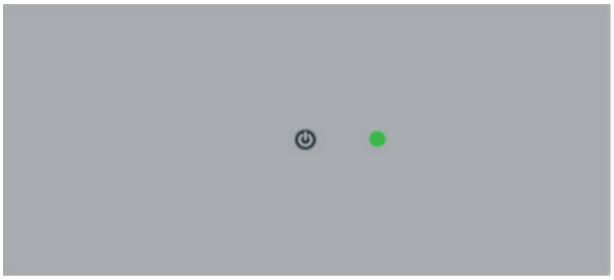


L-N = ALIMENTAZ.ELETTRICA 230V-50Hz / 230V-50Hz ELECTRICAL SUPPLY
Y1 = ELETTROVALVOLA ACQUA / WATER ACTUATOR
RS = CABLAGGIO VERSIONE RS/RS VERSION CONNECTION
MF = CONNESSIONE FLAP MOBILE/MOBILE FLAP CONNECTION
M1 = MOTORE DC / DC FAN MOTOR
S1 = MICROINT.PER SICUREZZA GRIGLIA / GRILL SAFETY MICROSWITCH
AIR = SONDA TEMP.ARIA / AIR TEMPERATURE PROBE
H2 = SONDA TEMP.ACQUA (2KΩ)/ WATER TEMPERATURE PROBE (2KΩ)

11. FANCOIL CONTROLS

iHBS Electronic controller

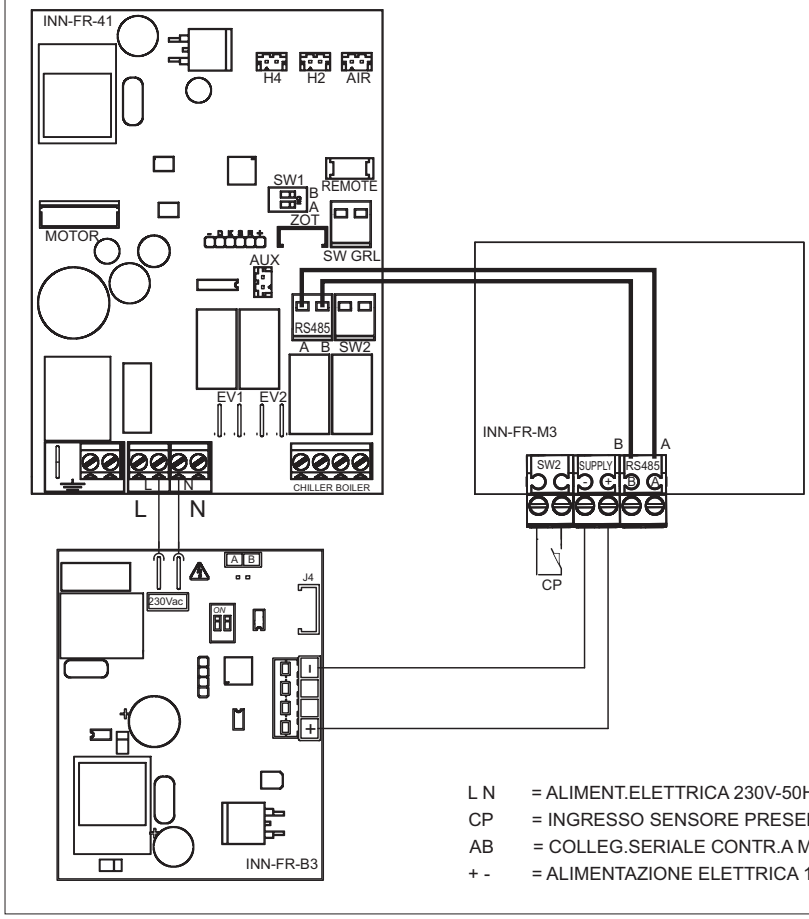
The electronic controller for remote control allows all of the fan coil functions to be managed from the iKSW wall-mounted remote control.
The same remote control can manage up to a maximum of 30 fan coils, operating in broadcast mode (commands sent simultaneously to all the fan coils).
The controller can be installed on all versions, and features a green LED that indicates the operating status and any errors, plus a button to temporarily switch the unit off (when next restarting the wall-mounted remote control, the fan coil is also restarted).
The main operating parameters, set point and room temperature are sent by the iKSW wall-mounted remote control to all the terminals connected in the network, thus ensuring uniform operation.



iKSW Remote control for built-in units or units with casing

The iKSW wall-mounted remote control is an electronic thermostat fitted with room temperature probe that can be used to control one or more (maximum 30) units (with simultaneous transmission), each fitted with the iHBS electronic board for operation via remote control.

Electrical connections

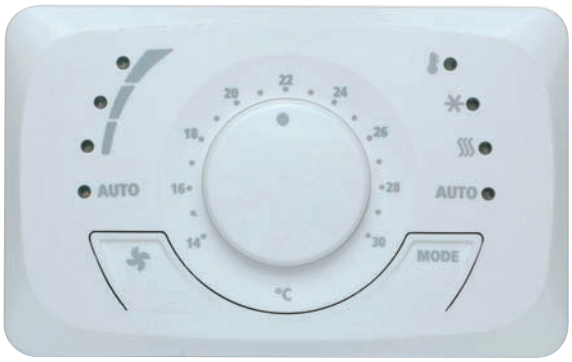


L N = ALIMENT.ELETTRICA 230V-50Hz / 230V-50Hz ELECTRICAL SUPPLY
CP = INGRESSO SENSORE PRESENZA / PRESENCE CONTACT INPUT
AB = COLLEG.SERIALE CONTR.A MURO / WALL PANEL SERIAL CONNECT.
+ - = ALIMENTAZIONE ELETTRICA 12VDC / 12VDC ELECTRICAL SUPPLY

11. COMANDI FAN-COIL

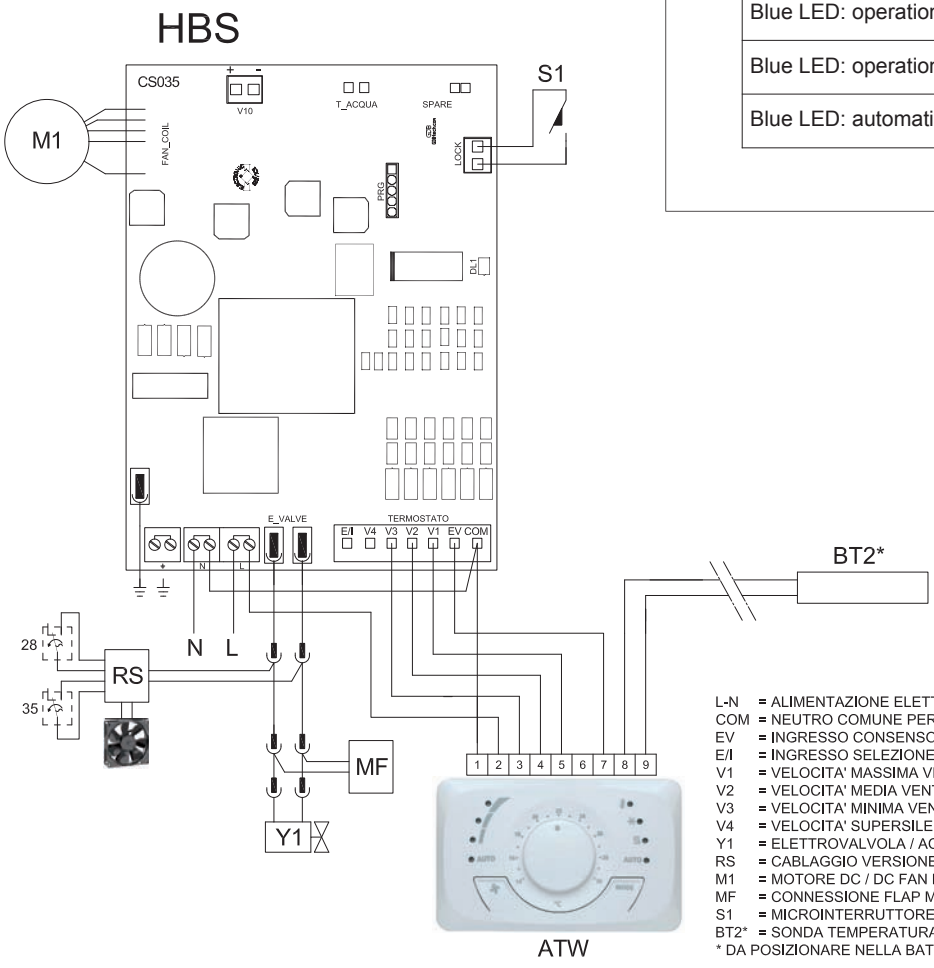
ATW wall-mounted control

The ATW control is used to regulate the air (3 speeds + auto), the temperature through electronic thermostat, to select the summer / winter / auto mode of operation and to switch the fan-coil on / off.



Temperature selector	
Adjust the temperature as required by turning the temperature selector from +14°C to 30°C.	
Function selector	MODE
Select the mode of operation pushing the MODE button.	
Mode led	
Cooling	✳
Heating	≋
Off	○
Automatic setting	AUTO
Speed button	
Select the fan speed pushing the button. The repeated pressure of fan button determines speed required.	
Maximum fan speed	
Medium fan speed	
Minimum fan speed	
Automatic fan speed	AUTO
Led	
Blue LED: Heating / Cooling plus regulator call Blue LED blinking: Hot start / Too Cool function active	
Blue LED: operation in Cooling mode	✳
Blue LED: operation in Heating mode	≋
Blue LED: automatic cooling / heating mode selection	AUTO

Electrical connections



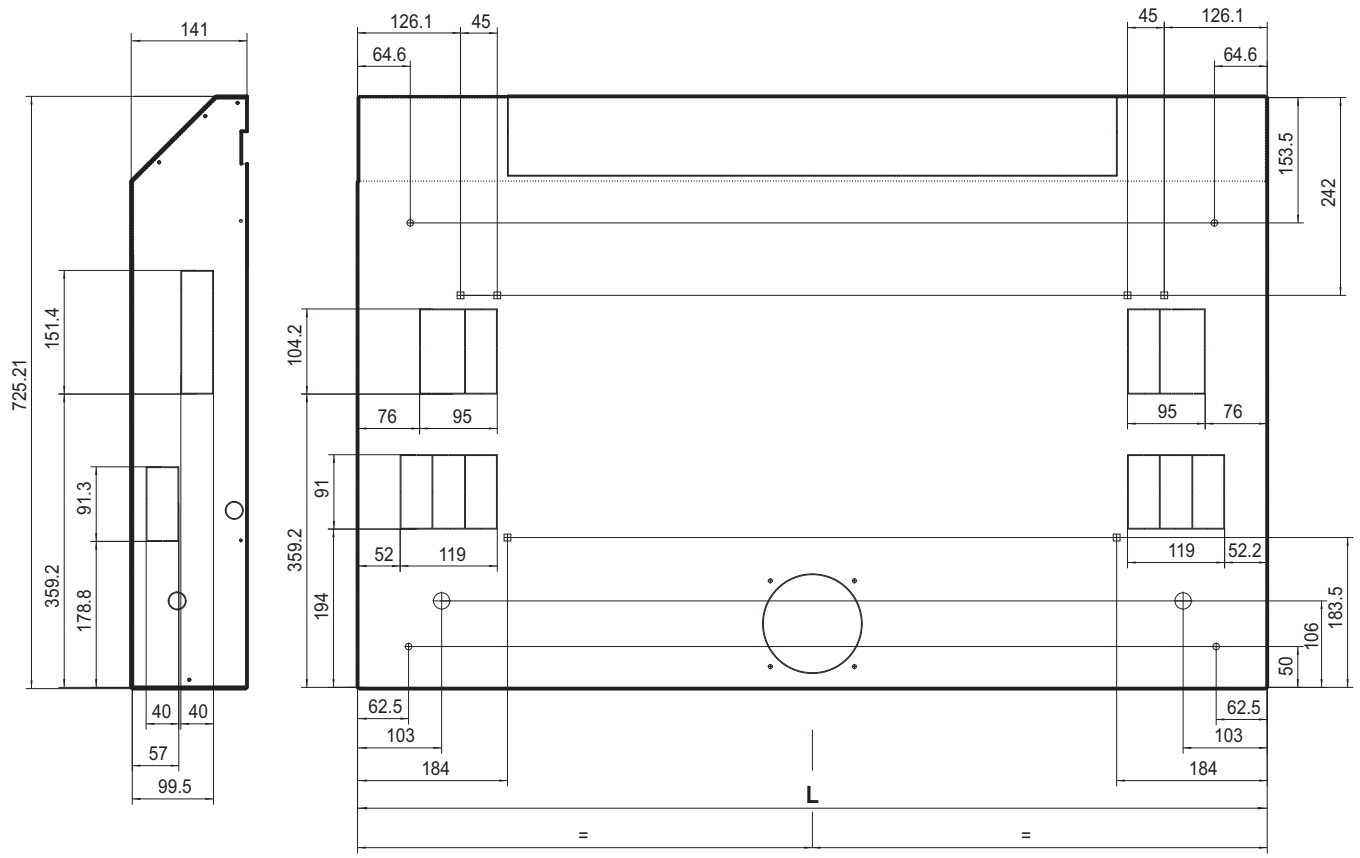
L-N = ALIMENTAZIONE ELETTRICA 230V-50Hz / 230V-50Hz ELECTRICAL SUPPLY
COM = NEUTRO COMUNE PER GLI INGRESSI/COMMON INLET NEUTRAL
EV = INGRESSO CONSENSO /ENABLE INPUT
E/I = INGRESSO SELEZIONE RISC.-REFFR./HEATING-COOLING INPUT SEL.
V1 = VELOCITA' MASSIMA VENTILATORE/MAX FAN SPEED
V2 = VELOCITA' MEDIA VENTILATORE/MED FAN SPEED
V3 = VELOCITA' MINIMA VENTILATORE/MIN FAN SPEED
V4 = VELOCITA' SUPERSILENT/SUPERSILENT SPEED
Y1 = ELETTROVALVOLA / ACTUATOR
RS = CABLAGGIO VERSIONE RS/RS VERSION CONNECTION
M1 = MOTORE DC / DC FAN MOTOR
MF = CONNESSIONE FLAP MOBILE/MOBILE FLAP CONNECTION
S1 = MICROINTERRUTTORE PER SICUREZZA GRIGLIA / MICROSWITCH
BT2* = SONDA TEMPERATURA ACQUA (10kohm)/ WATER TEMPERATURE PROBE (10kohm)
* DA POSIZIONARE NELLA BATTERIA A BORDO MACCHINA/TO PUT INTO THE COIL ON THE UNIT

12. ACCESSORIES

FDL2-i SLIM Concealed Box

Made of galvanised steel, the box houses the fan coil. The box is recessed in the wall during building work making the construction of a niche where the fan coils will be installed easier.
Holes for fitting the fan coil and preparing an electric plant with a socket are already present on the back panel.

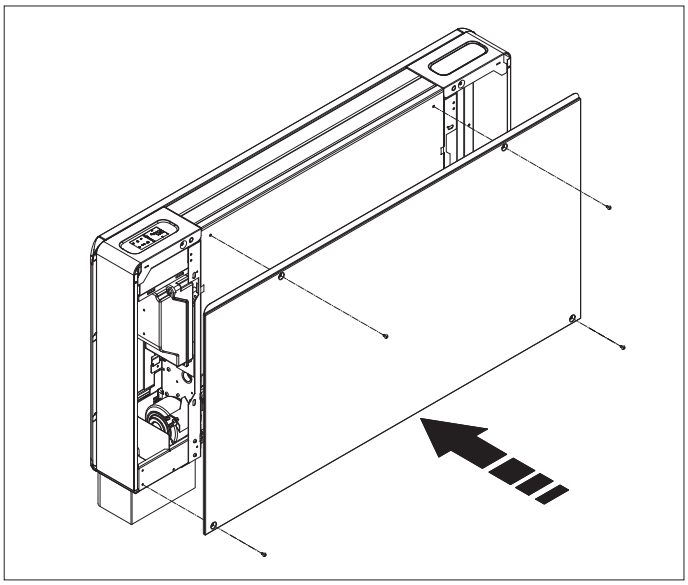
The box can arrange the hydraulic system pipes and condensation drain pipes thanks to the presence of several easily-removable elements on the sides and base.



Model	L (mm)
FDL2-i Slim DLIU 100	714
FDL2-i Slim DLIU 200	914
FDL2-i Slim DLIU 300	1114
FDL2-i Slim DLIU 400	1314
FDL2-i Slim DLIU 500	1514

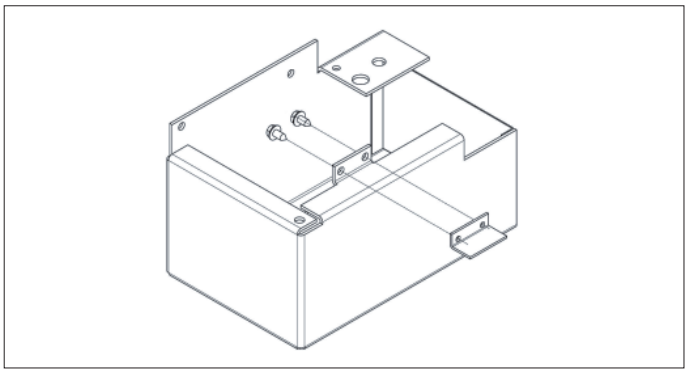
Rear closing panel kit

Use the rear closing panel when the back of the fan coilr is in view (for example, in front of a window).
The rear closure panel must be installed together with the GROUND ANCHOR FEET KIT.

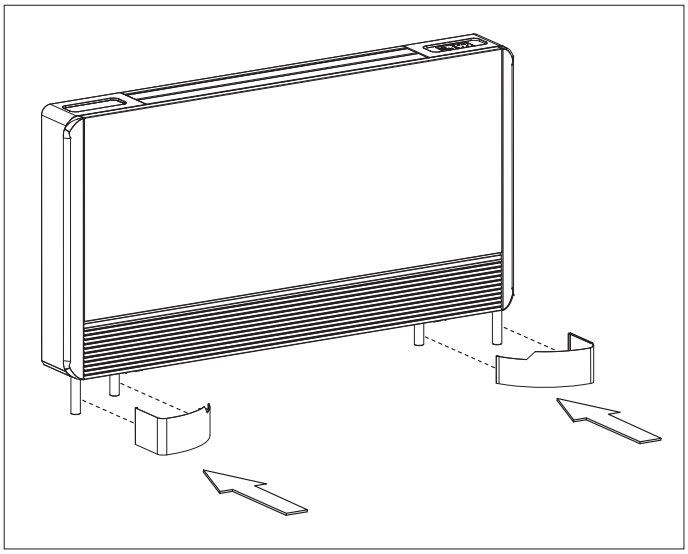


12. ACCESSORI

Ground anchor feet kit
Use this kit when installing the fan-coil on the floor in front of windows or when wall installation is not possible

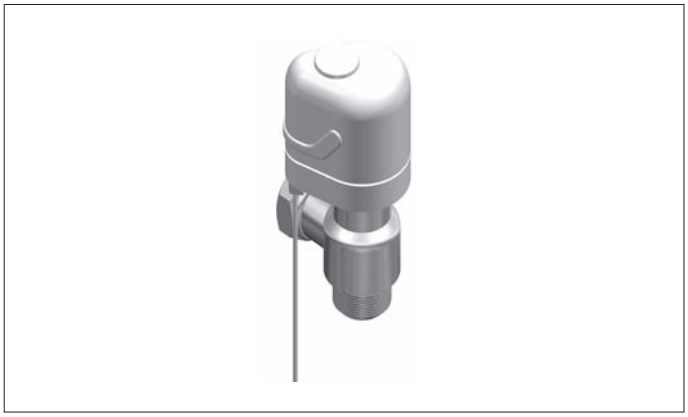


Aesthetic feet kit for vertical wall mounted installation
These accessories cover the hydraulic pipes coming up through the floor. They should be fitted on appliances anchored to the back wall.
They have a sleek design and are also easy to remove for maintenance or cleaning.
These Feet should not be used to anchor the terminal to the ground; the feet are designed specifically for this purpose.
Feet RAL 9003 white



2-way manual valve kit
This comprises a manual valve and a lockshield valve featuring micrometre adjustment for balancing pressure drop in the system.

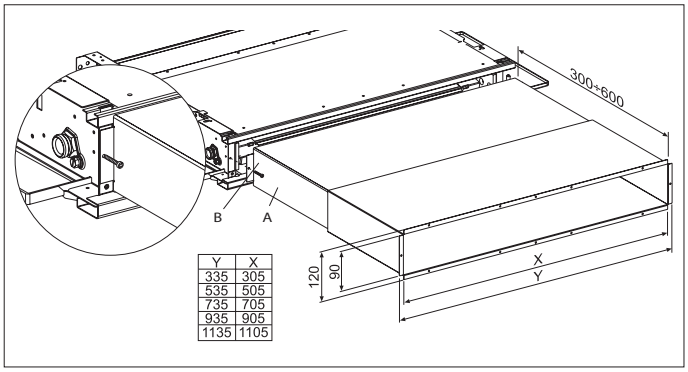
2-way valve kit with thermoelectric motor
This comprises an automatic valve with thermoelectric head and a lockshield valve featuring micrometre adjustment for balancing pressure drop in the system.
The kit also includes the insulation to be installed on the valve and the lockshield valve.



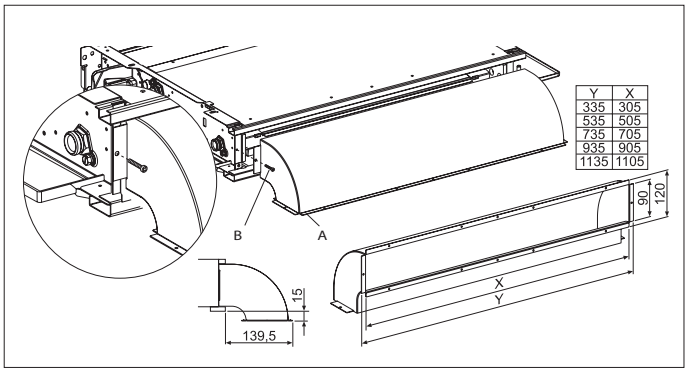
12. ACCESSORIES

3-way valve kit with selector valve thermoelectric motor
This comprises a 3-way selector valve with thermoelectric head and a lockshield valve featuring micrometre adjustment for balancing pressure drop in the system.
The kit also includes the insulation to be installed on the valve and the lockshield valve..

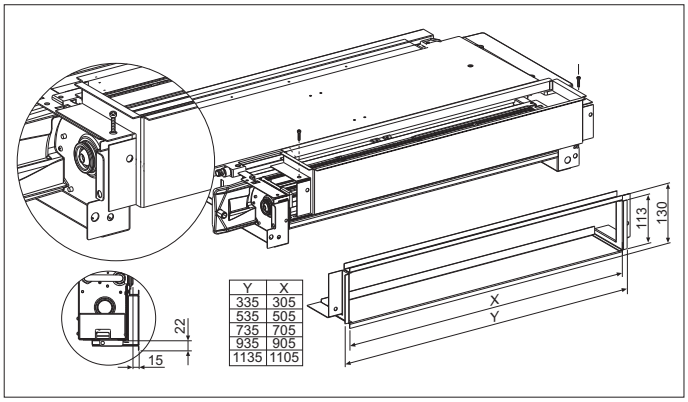
Insulated telescopic plenum chamber kit
Horizontally extendable air output conveyor, from 300 mm to 600 mm only for flush mounted versions.



Insulated 90° plenum chamber kit
90° air output conveyor only for flush mounted versions.



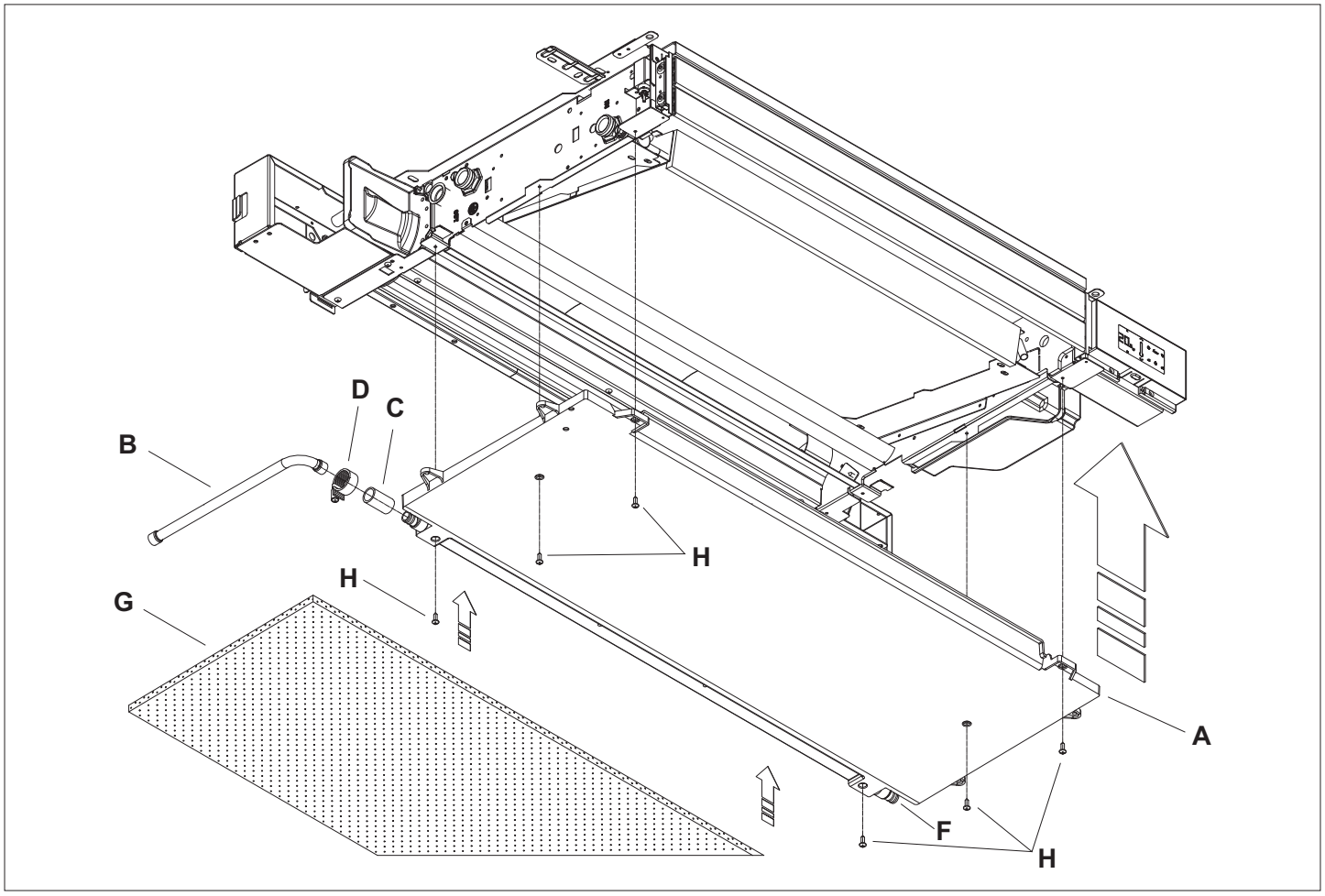
Aspiration kit
Air inlet conveyor only for flush mounted versions.



12. ACCESSORIES

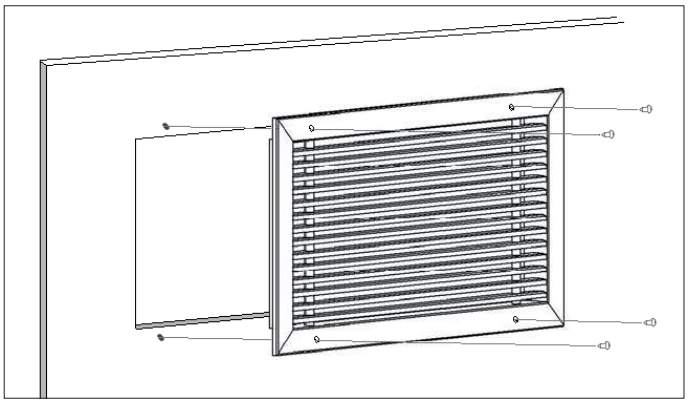
Condensate drain bowl for horizontal installation
The condensate collection pan kit is used in applications for horizontal versions (ceiling installation).

Description		Qty.
A	Front closing bowl	1
B	Condensation drainage pipe	1
C	Condensation drainage rubber hose	1
D	Clamp locking condensation drainage pipe	2
F	Transparent plug D 13 mm	1
G	Front bowl insulation	1
H	Cylindrical head screw 4.2x13	6

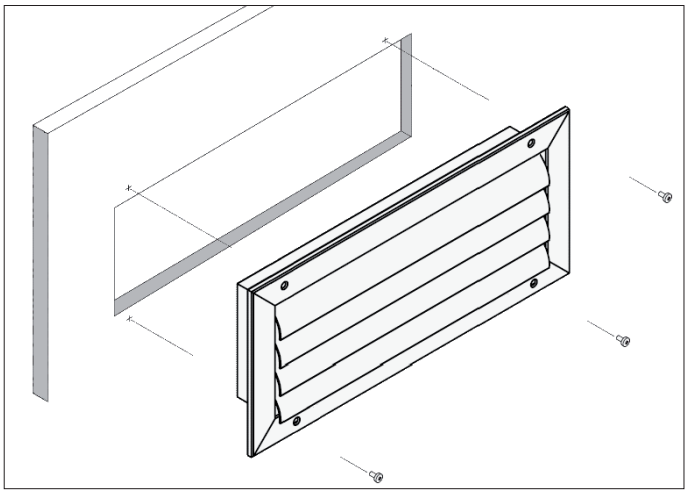


12. ACCESSORIES

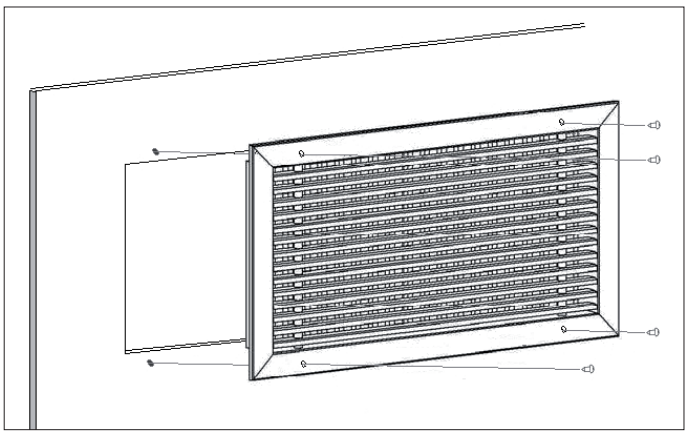
Intake Grill with streight fins
The anodized aluminium intake grille it's applied to built-in installations.



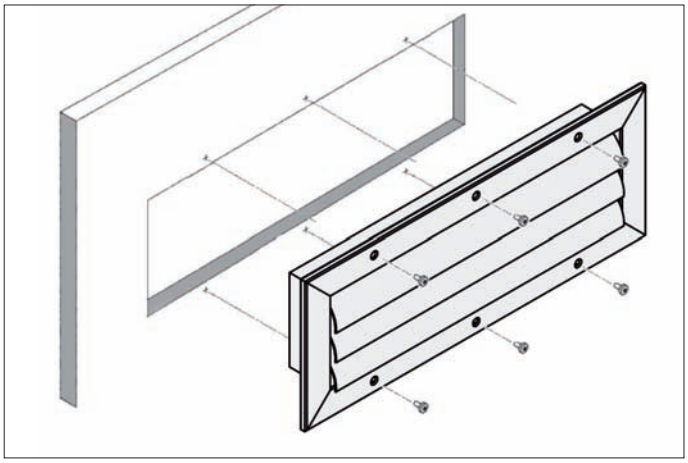
Intake Grill with curved fins
The anodized aluminium intake grille it's applied to built-in installations.



Delivery Grill with streight fins
The anodized aluminium delivery grille is applied to built-in installations.

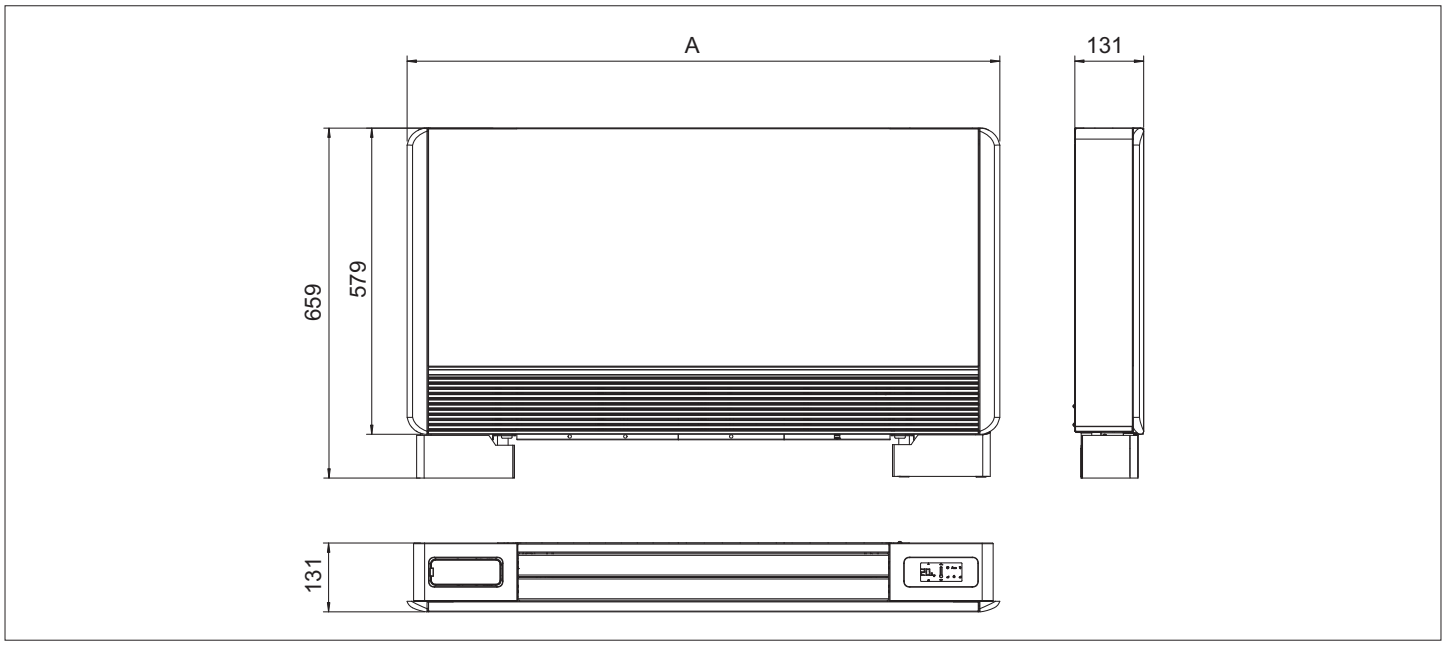


Delivery Grill with curved fins
The anodized aluminium delivery grille is applied to built-in installations.

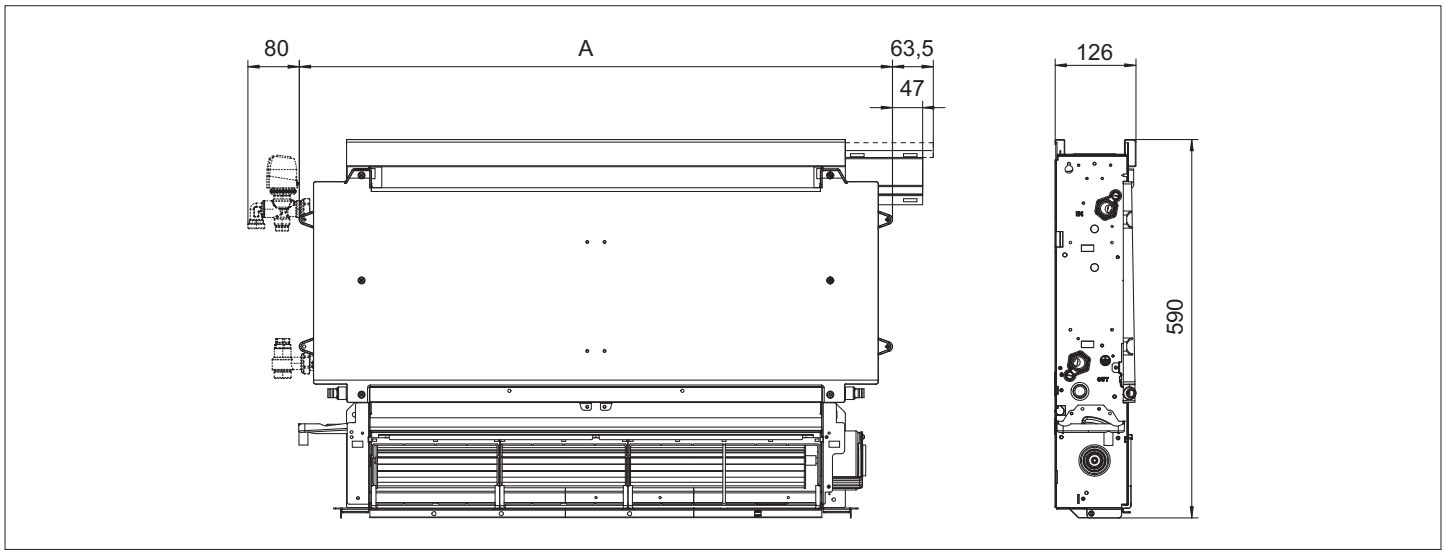


13. DIMENSIONAL DRAWINGS

FDL2-i SLIM DLMV, DLMO, DLRV fan coils with casing						
Dimensions		**102**	**202**	**302**	**402**	**502**
A	mm	737	937	1137	1337	1537



FDL2-i SLIM DLIU built-in fan coil						
Dimensions		**102**	**202**	**302**	**402**	**502**
A	mm	525	725	925	1125	1325



De'Longhi Professional

Via Duca d'Aosta 121
31030 Mignagola (TV) - Italy
Tel +39 0422 4131
Fax +39 0422 413659