

FCLI

Cassette-type fancoils with Brushless Inverter motor
Continuous 0-100% air flow rate regulation
Ceiling and false ceiling installation, cooling power from 1900 up to 11000W



Aermec participate in the EUROVENT program: FC / 2 / H, FC / 4 / H the products are present on the site www.eurovent-certification.com

Variable Multi Flow

VMF

Models:
FCLI32 , FCLI42 , FCLI62
FCLI34 , FCLI44 , FCLI64



GLLI10 - GLLI10N
White: RAL 9010

Models:
FCLI82 , FCLI122 , FCLI124



GLLI20 - GLLI20N
White: RAL 9010



FCLI with accessory **FCLMC**



FCLMC
White: RAL 9010

The future is Inverter

FCLI is the Aermec range of cassette-type fan coils with continuous 0-100% air flow rate variation and therefore continuous heating/cooling capacity variation.

Thanks to the Inverter technology, the FCLI continuously modifies the air flow rate, adapting it - moment by moment - to the real needs in the room.

This produces considerable advantages in terms of electric savings, comfort and noise reduction compared with a traditional on-off 3-speed fan coil.

- **VMF SYSTEM WITH GLLI10N AND GLLI20N GRILLES**
- **ELECTRIC SAVINGS OF 50% COMPARED WITH A FAN COIL WITH TRADITIONAL 3-SPEED MOTOR**
- **VERY QUIET OPERATION**
- **TOTAL COMFORT: REDUCED TEMPERATURE AND HUMIDITY VARIATIONS IN THE AIR-CONDITIONED ROOMS**
- **STANDARD INTERNAL THREE-WAY VALVE, WITH FAST CONNECTION ACTUATOR AND POSITION VISUAL SIGNALLING**
- **VERSION WITH 2-WAY VALVE FOR VARIABLE WATER FLOW RATE SYSTEMS**
- **VERSION WITHOUT VALVES**
- **THERMAL EXCHANGE BATTERY WITH SHAPED PROFILE AND ENHANCED SURFACE**
- **FAN FOR LOW SOUND EMISSIONS**
- **VERSIONS FOR SYSTEMS WITH 2 AND 4 PIPES**

Features

- Fan unit with Brushless motor (Continuous 0-100% speed variation);
- 5 sizes for 2-pipe versions: FCLI 32-42-62-82-122
- 4 sizes for 4-pipe versions: FCLI 34-44-64-124
- Standard preparation with standard internal three-way valve, with fast connection actuator and visual signalling of the position
- FCLI_V2 preparation (available upon request), with internal two-way valve, suitable for variable water flow rate systems
- FCLI_VL preparation (available upon request), without internal valve
- Requires matching with the obligatory accessories, grill and control panel, necessary for the operation
- High design aesthetics
- Grille dimensions that can be perfectly incorporated into standard suspended ceiling panel sizes (600x600 mm) and (840x840) for more powerful units.
- Fan for low sound emissions
- EUROVENT certification
- The load-bearing structure, reinforced with a galvanised steel side band, contains insulation elements in expanded polystyrene obtained from injection moulding for purposes of noise reduction and air routing
- The condensation drip tray is in one piece, with V0 self-extinguishing level and joined by means of over-moulding technology to the insulation in expanded polystyrene with flame retardant additive
- Heat exchanger with shaped profile to increase the exchange surface, and easily accessible drain valves
- Possibility of direct release of external air regardless of indoor unit ventilation
- Possibilità di condizionare anche locali attigui
- Air filter easily removed and cleaned, self-supporting structure, characterised by a high efficiency and low pressure drops, with a fire resistance class V0 (UL 94)
- Electrostatically pre-charged air filter regenerated with fire resistance class 2 (UL 900), (FEL 10 accessory)
- Full compliance with the accident prevention standards
- Ease of installation and maintenance

Technical data

Mod. FCLI	2-pipe versions		32	42	62	82	122
Heating capacity 50°C (E)	vel. (max)	W	2380	4950	6250	7100	13000
Pressure drops (VL) 50°C (E)	vel. (max)	kPa	9	23	16	21	34
Total cooling capacity (E)	vel. (max)	W	1900	3950	4980	6000	11000
Sensible cooling capacity (E) vel. (max)	W		1520	3160	3815	4200	8470
Water flow rate	vel. (max)	l/h	327	679	857	1032	1892
Pressure drops (VL) (E)	vel. (max)	kPa	10	25	36	25	38
Air flow rate (E)	vel. (max)	m³/h	600	700	880	1100	1750
	vel. (min)	m³/h	150	150	150	350	350
Fans		n.	1	1	1	1	1
Sound power (E)	vel. (max)	dB(A)	46	53	61	50	60
♪ Sound pressure	vel. (max)	dB(A)	37	42	52	41	51
	vel. (min)	dB(A)	22	23	24	31	31
Heat exchanger water content		l	1,2	1,5	2,1	3	4,5
Water connections		ø Gas	3/4"	3/4"	3/4"	3/4"	3/4"
Kvs (standard version 3R valve)			2,5	2,5	2,5	4	4
Input power (E)	(max)	W	33	55	61	80	90
Input current	(max)	A	0,28	0,43	0,47	0,71	0,8

Mod. FCLI	4-pipe versions		34	44	64	124
Heating capacity 70°C		l/h	2600	3070	3800	12500
Water flow rate 70°C (E)	vel. (max)	W	224	264	327	1075
Pressure drops (VL) 70°C (E)		kPa	11	14	21	29
Total cooling capacity (E)	vel. (max)	W	1900	3650	4610	8800
Sensible cooling capacity (E) vel. (max)	W		1520	2920	3530	6770
Water flow rate	vel. (max)	l/h	327	628	793	1514
Pressure drops (VL) (E)	vel. (max)	kPa	10	22	31	38
Air flow rate (E)	vel. (max)	m³/h	600	700	880	1750
	vel. (min)	m³/h	150	150	150	350
Fans		n.	1	1	1	1
Sound power (E)	vel. (max)	dB(A)	46	53	61	60
♪ Sound pressure	vel. (max)	dB(A)	37	42	52	51
	vel. (min)	dB(A)	22	23	24	31
Heat exchanger water content		l	1,2	1,5	2,1	4,5
Heat exchanger water content (hot circuit)		l	0,3	0,5	1,5	4,5
Water connections		ø Gas	3/4"	3/4"	3/4"	3/4"
Water connections (hot circuit)		ø Gas	1/2"	1/2"	1/2"	1/2"
Kvs (standard version 3R valve)			2,5	2,5	2,5	4
Kvs (hot circuit valve)			2,5	2,5	2,5	2,5
Input power (E)	(max)	W	33	55	61	90
Input current	(max)	A	0,28	0,43	0,47	0,8

Power supply = 230V ~ 50Hz

(E) = EUROVENT certificate performances

The performances are the same for all the configurations:
FCLI (standard), FCLI V2 and FCLI VL.

Performance values refer to the following conditions:

♪ Level of sound pressure (A-weighted) measured in the room with
volume V = 85 m³; reverberation time t = 0.5 s; direction factor Q =
2; distance r = 2.5 m.

■ Cooling:

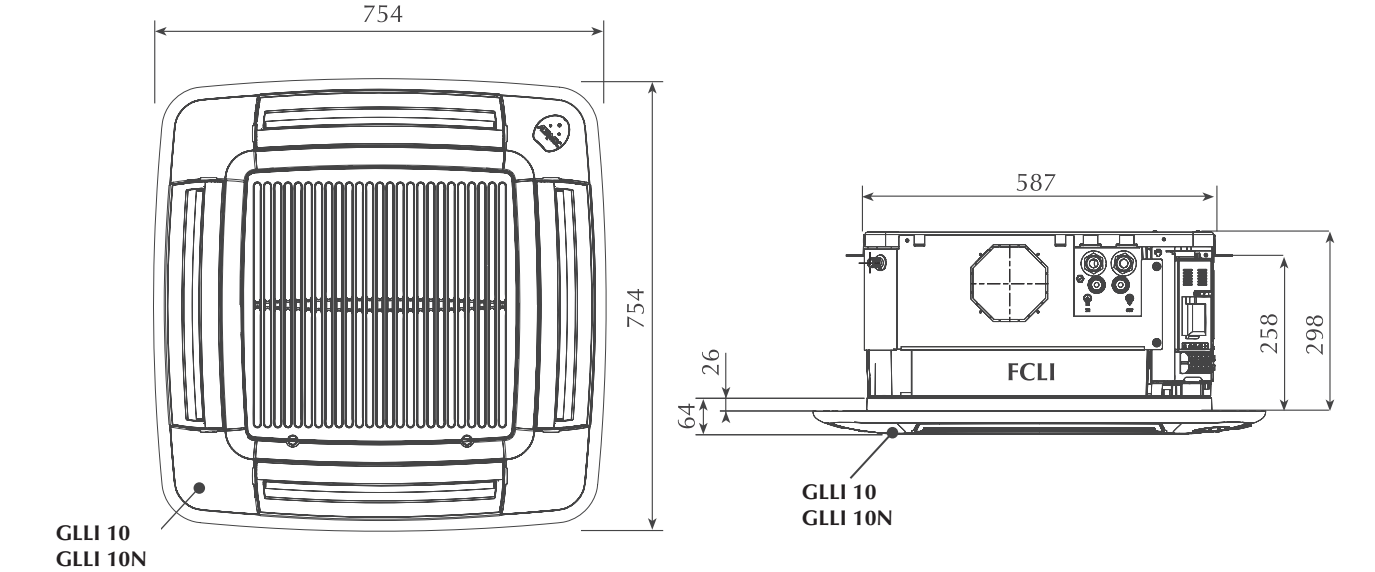
- room air temperature 27°C B.S. ; 19°C B.U.
- inlet water temperature 7°C ; maximum speed
Δt water 5°C

■ Heating

- room air temperature 20°C
- inlet water temperature 70°C ; Δt water 10°C
- maximum speed
- water flow rate as in cool mode

Dimensions (mm)

FCLI 32 - 34 - 42 - 44 - 62 - 64
FCLI 32 V2 - 34 V2 - 42 V2 - 44 V2 - 62 V2 - 64 V2
FCLI 32 VL - 34 VL - 42 VL - 44 VL - 62 VL - 64 VL

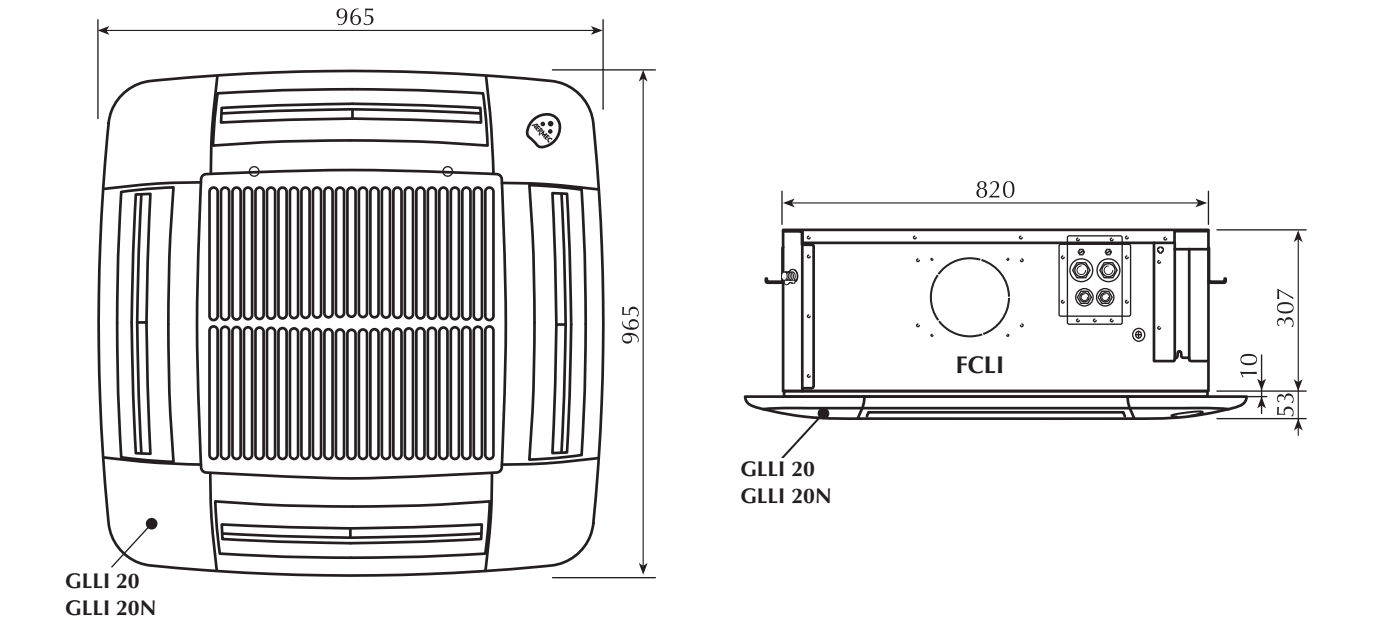


Mod. FCLI		32	34	42	44	62	64
Weight	kg	20,5	21	20,5	21	22	22,5

Mod. FCLI		32 V2	34 V2	42 V2	44 V2	62 V2	64 V2
Weight	kg	20,5	21	20,5	21	21	22,5

Mod. FCLI		32 VL	34 VL	42 VL	44 VL	62 VL	64 VL
Weight	kg	20	20,5	20	20,5	21,5	22

FCLI 82 - 122 - 124
FCLI 82 V2 - 122 V2 - 124 V2
FCLI 82 VL - 122 VL - 124 VL



Mod. FCLI		82	122	124
Weight	kg	35	36	36

Mod. FCLI		82 V2	122 V2	124 V2
Weight	kg	35	36	36

Mod. FCLI		32 VL	122 VL	124 VL
Weight	kg	34	35	35

The technical data in this document are not binding. Aermec S.p.A. shall have the right to introduce at any time whatever modifications deemed necessary for the improvement of the product.

Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italy
Telephone 0442633111 - Telefax 044293730
www.aermec.com