

Cassette type fancoil Ceiling and false ceiling installation, cooling power from 1900 up to 11000W

Models:
FCL 32, FCL36, FCL42, FCL62 - FCL72
FCL 34, FCL38, FCL44, FCL64

Models:
FCL 82, FCL102, FCL122
FCL 84, FCL104, FCL124



Aermec participate in the EUROVENT program: FCH the products are present on the site www.eurovent-certification.com



VMF

GLL10 - GLL10M - GLL10R - GLL10N
White: RAL 9010

GLL20 - GLL20R - GLL20N
White: RAL 9010

FCL with accessory FCLMC



FCLMC
White: RAL 9010



Remote Control included for GLL10M
GLL10R - GLL20R

- **STANDARD INTERNAL 3-WAY VALVE**
- **VERSION WITH 2-WAY VALVE FOR VARIABLE WATER FLOW RATE SYSTEMS**
- **VERSIONS WITHOUT VALVS**
- **FAN PURPOSELY DESIGNED FOR LOW SOUND EMISSIONS**
- **VERSIONS FOR 2-PIPE AND 4-PIPE SYSTEMS**
- **ALSO AVAILABLE WITH ELECTRIC HEATER FOR HEATING**

Features

- 8 sizes for 2-pipe versions:
FCL 32-36-42-62-72-82-102-122
- 7 sizes for 4-pipe versions:
FCL 34-38-44-64-84-104-124
- Standard preparation with standard internal three-way valve, with fast connection actuator and position visual signalling.
- FCL_V2 preparation (available upon request), with internal two-way valve, suitable for variable water flow rate systems.
- FCL_VL preparation (available upon request), without internal valve.
- 3 configurations on one cassette-type fan coil:
 - louvers that can be oriented by means of a remote control and electronic control if coupled with the accessory GLL10M;
 - with remote control, louvers that can be oriented manually and by means of electronic control if coupled with the accessory GLL10R or GLL20R;
 - with louvers that can be oriented manually if coupled with the accessory GLL10 or GLL20, also requires a wired control panel (accessory).
- High design aesthetics.
- Grille dimensions perfectly integrable in standard suspended ceiling panels of 600x600mm and 840x840mm for the most powerful units.
- Fan designed for low sound emissions.
- 3-speed and 4-speed mixed flow (axial + centrifugal) fan unit for larger sizes (FCL 42-44-62-64-72-82-84-102-104-122-124), in order to select the 3 speeds that best meet delivered power and quiet operation requirements.
- 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 (FCL 42-44-62-72-64).
- Structure made entirely of galvanised steel, containing insulation elements in closed cell expanded polystyrene and externally covered with anti-condensate felt (FCL 82-84-102-104-122-124).
- Condensation drip tray in one piece, with V0 self-extinguishing level and overmoulding to insulation in expanded polystyrene with flame retardant additive.
- Heat exchanger with shaped profile to increase the exchange surface, and easily accessible drain valves.
- Continuous fan operation to prevent stratification of room air.
- Possibility of direct release of external air regardless of indoor unit ventilation.
- Possibility to control the climate of adjacent rooms as well. The versions FCL 82-84-102-104-122-124 allow 3-direction delivery.
- Air filter easily removed and cleaned, self-supporting structure, characterised by a high efficiency and low pressure drops, with class-V0 fire resistance (UL 94).
- Electrostatically pre-charged air filter regenerated with fire resistance class 2 (UL 900), (FEL 10 accessory for GLL10, GLL10R, GLL10M).
- Full compliance with safety regulations.
- Easy installation and maintenance.

Accessories

Compulsory GLL accessories, essential for unit operation:

- **GLL10M (600x600)**
Delivery grille with adjustable louvers by means of a remote control and air intake, supplied with an infrared receiver with emergency operation switch. White RAL 9010.
- **GLL10R (600x600)**
GLL20R (840x840)
Delivery grille with louvers manually adjustable and air intake. With remote control, supplied with an infrared receiver with emergency operation switch. White RAL 9010.
- **GLL10 (600x600)**
GLL20 (840x840)
Delivery grille with louvers manually adjustable and air intake. Combined with wall-mounted control panel. White RAL 9010.
- **GLL10N (600x600)**
GLL20N (840x840)
Delivery grille with Manually adjustable fins and air intake, with "VMF System" advanced electronic thermostat. Individual units, or network master also requires a wired control panel (VMF-E4 compulsory accessory). White RAL 9010.
- **Control panels and VMF System:** the characteristics are described on the appropriate card.

Accessories:

- **FCLMC10**
FCLMC20
is a perimeter case in galvanised and painted sheet steel, which is used when the fan coil is installed outside the suspended ceiling. It is used for aesthetics and protection, therefore the technical features of the FCL and FCL1 remain unvaried.
- **FEL10** : kit n°5 electrostatically pre-charged air filter, with fire resistance class 2 (UL 900).
- **KFL** : Delivery flange, allowing the air to be directed to an adjacent room.
- **KFL20 (***)** : delivery flange, allowing the air to be directed to an adjacent room. Up to three KFL20 can be assembled on a single unit.
- **KFLD** : suction flange, allows to introduce external air directly into the room without mixing.
- **KFLD20 (***)** : suction flange, allows to introduce external air directly into the room without mixing. Up to two KFL20D can be assembled on a single unit.
- **RXLE - RXLE20** : electric heater for heating, can be installed on the single-fan FCL units. Requires GLL-M or GLL-R.
- **SIT 3-5** : Thermostat Interface Cards. They allow the creation of a network of fan coils (max. 6) commanded by a central control panel (selector or thermostat).
SIT3 : commands the 3 fan speeds and must be installed on each fan coil of the network; recei-

ves the commands from the selector or the SIT5 card.

SIT5: commands the 3 fan speeds and up to 2 valves (four pipes systems); transmits the thermostat commands to the network of fan coils fitted with SIT3.

- **SW3** : Minimum water temperature probe, to be used with electronic PXAE thermostats.
- **SW4** : Minimum water temperature probe, to be used with the units fitted with a grille with remote control. Compulsory with GLL_M, GLL_R, GLL_N
- **SWA** : External SWA probe accessory for FMT21 panels. Detects the ambient air temperature if connected to the connector (A); the probe in the panel will be automatically disabled. Detects the temperature of the water in the system, for ventilation consent, if connected to the connector (W) (Length L = 6m)
- **VHL1 - VHL20** : motor-driven three-way valve for the heating battery in 4-pipe systems. Obligatory accessory in 4-pipe systems.
- **VHL2 - VHL22** : motor-driven two-way valve for the heating battery in 4-pipe systems. Obligatory accessory in 4-pipe systems with variable flow rates.

Mod. FCL		32	34	36	38	42	44	62	64	72	82	84	102	104	122	124
GLL10		•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
GLL10M	(1)	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
GLL10R	(1)	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
GLL10N	(1)	•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
GLL20		-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
GLL20R	(1)	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
GLL20N	(1)	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
FCLMC10		•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
FCLMC20		-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
FEL10		•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
KFL		•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
KFL20	(2)	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
KFLD		•	•	•	•	•	•	•	•	•	-	-	-	-	-	-
KFLD20	(2)	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
RXLE	(1)	•	-	•	-	•	-	•	-	•	-	-	-	-	-	-
RXLE20	(1)	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•
SW3	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SW4	(1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SWA	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VHL1		-	•	-	•	-	•	-	•	-	-	-	-	-	-	-
VHL20		-	-	-	-	-	-	-	-	-	-	-	-	•	-	•
VHL2		-	•	-	•	-	•	-	•	-	-	-	-	-	-	-
VHL22		-	-	-	-	-	-	-	-	-	-	•	-	•	-	•
SIT 3	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SIT 5	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FMT10	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FMT21	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PX	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PX2-PX2C6	(3)(4)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PXAE	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TPF	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
WMT10	(3)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4 / E4D	(5)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

(1) Compulsory with GLL_M, GLL_R, GLL_N

(2) A maximum of three KFL20 / KFL20D can be assembled on a single unit

(3) Accessories that can only be used in combination with GLL10 and GLL20 grilles.

(4) PX2C6, PX2 panel in multiple 6-piece pack, for only wall installations

(5) Accessories that can only be used in combination with the GLL10N and GLL20N grilles for individual units or network master

Technical data

FCL		32			34			36			38			42			44			62			64		
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Heating Performance																									
2 pipe configuration																									
Heating capacity (70°C)	(1) kW	4,00	2,95	2,22	/	/	/	6,27	4,50	3,42	/	/	/	7,34	4,47	3,32	/	/	/	10,49	6,37	5,19	/	/	/
Water flow rate	(1) l/h	350	258	194	/	/	/	549	394	300	/	/	/	642	391	290	/	/	/	918	558	454	/	/	/
Pressure drops	(1) kPa	10	6	4	/	/	/	19	10	6	/	/	/	24	10	6	/	/	/	42	17	12	/	/	/
Heating capacity (50°C)	(2) kW	2,38	1,76	1,33	/	/	/	3,75	2,69	2,05	/	/	/	4,40	2,69	2,00	/	/	/	6,25	3,83	3,10	/	/	/
Water flow rate	(2) l/h	327	253	200	/	/	/	516	387	308	/	/	/	679	437	337	/	/	/	856	551	458	/	/	/
Pressure drops	(2) kPa	9	6	3,8	/	/	/	17	10	7	/	/	/	27	12	8	/	/	/	37	17	12	/	/	/
Heating capacity (45°C)	(3) kW	1,99	1,47	1,10	/	/	/	3,12	2,24	1,70	/	/	/	3,65	2,23	1,65	/	/	/	5,22	3,17	2,58	/	/	/
Water flow rate	(3) l/h	345	254	192	/	/	/	541	389	295	/	/	/	633	386	287	/	/	/	905	550	448	/	/	/
Pressure drops	(3) kPa	10	6	4	/	/	/	19	10	6	/	/	/	23	10	6	/	/	/	41	17	11	/	/	/
4 Pipe configuration with Additional Heat Exchanger																									
Heating capacity	(4) kW	/	/	/	2,60	2,19	1,95	/	/	/	2,60	2,19	1,95	/	/	/	3,07	2,28	1,96	/	/	/	3,57	2,81	2,48
Water flow rate	(4) l/h	/	/	/	228	192	171	/	/	/	228	192	171	/	/	/	269	200	172	/	/	/	312	246	217
Pressure drops	(4) kPa	/	/	/	11,4	8,4	6,8	/	/	/	11,4	8,4	6,8	/	/	/	14,5	8,5	6,5	/	/	/	22,9	14,8	11,9
Cooling Performance																									
Total cooling capacity	(5) kW	1,90	1,47	1,16	1,90	1,47	1,16	3,00	2,25	1,79	2,77	2,08	1,65	3,95	2,54	1,96	3,64	2,30	1,83	4,98	3,21	2,66	4,61	2,96	2,46
Sensible cooling capacity	(5) kW	0,99	1,25	1,52	1,52	1,25	0,99	2,40	1,78	1,39	2,24	1,66	1,30	3,16	1,82	1,38	2,91	1,62	1,30	3,81	2,24	1,87	3,53	2,08	1,73
Water flow rate	(5) l/h	327	253	200	327	253	200	516	387	308	476	358	284	679	437	337	626	396	314	856	551	458	793	510	424
Pressure drops	(5) kPa	11,7	7,4	4,8	12,7	8	5,2	7,6	11,5	19,3	18,7	11,2	7,4	32,4	14,7	9,2	31,7	13,9	9,2	47,8	21,6	15,5	50,3	22,7	16,3
Water content	l		1,2			1,2			1,5			1,5			1,5			1,5			2,1			2,1	
Fans																									
Fan	type/n°	centrifugal/1																							
Air flow rate	m³/h	600	410	300	600	410	300	600	410	300	600	410	300	700	360	260	700	360	260	880	500	380	880	500	380
Sound data																									
Sound power level	(6) dB(A)	46	38	35	46	38	35	46	38	35	46	38	35	53	39	35	53	39	35	61	47	41	61	47	41
Sound pressure level	dB(A)	37	29	26	37	29	26	37	29	26	37	29	26	44	30	26	44	30	26	52	38	32	52	38	32
Diameter connections																									
Standard coil	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Additional coil	Ø	/			1/2"			/			1/2"			/			1/2"			/			1/2"		
Increased coil	Ø	/			/			/			/			/			/			/			/		
Electrical Features																									
Absorbed power	W	45	31	21	45	31	21	45	31	21	45	31	21	75	32	22	75	32	22	83	37	26	83	37	26
Max. input current	A	0,22			0,22			0,22			0,22			0,33			0,33			0,37			0,45		
Electrical wiring		V3	V2	V1	V3	V2	V1	V3	V2	V1	V3	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1
Power supply	V/ph/Hz	230V~50Hz																							
Energy Efficiency classification (EUROVENT)																									
FCEER		E			E			D			D			D			C			C			D		
FCCOP	(7)	E			D			D			D			D			D			C			D		

FCL		72			82			84			102			104			122			124					
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Heating Performance																									
2 pipe configuration																									
Heating capacity (70°C)	(1) kW	11,32	7,57	6,14	11,88	8,12	5,88	/	/	/	17,73	11,71	8,30	/	/	/	21,75	14,73	10,53	/	/	/	/	/	/
Water flow rate	(1) l/h	991	662	538	1039	710	514	/	/	/	1551	1025	726	/	/	/	1903	1289	921	/	/	/	/	/	/
Pressure drops	(1) kPa	42	20	14	26	13	7	/	/	/	25	12	6	/	/	/	42	21	11	/	/	/	/	/	/
Heating capacity (50°C)	(2) kW	6,75	4,49	3,65	7,10	4,85	3,50	/	/	/	10,60	7,00	4,95	/	/	/	13,00	8,80	6,30	/	/	/	/	/	/
Water flow rate	(2) l/h	938	571	484	1032	695	482	/	/	/	1547	1012	697	/	/	/	1893	1292	921	/	/	/	/	/	/
Pressure drops	(2) kPa	38	16	12	26	13	7	/	/	/	25	12	6	/	/	/	41	21	11	/	/	/	/	/	/
Heating capacity (45°C)	(3) kW	5,63	3,77	3,06	5,91	4,04	2,92	/	/	/	8,82	5,83	4,13	/	/	/	10,82	7,33	5,24	/	/	/	/	/	/
Water flow rate	(3) l/h	977	654	530	1025	701	507	/	/	/	1530	1011	716	/	/	/	1877	1271	909	/	/	/	/	/	/
Pressure drops	(3) kPa	41	20	13	25	13	7	/	/	/	25	12	6	/	/	/	41	20	11	/	/	/	/	/	/
4 Pipe configuration with Additional Heat Exchanger																									
Heating capacity	(4) kW	/	/	/	/	/	/	8,50	6,40	5,30	/	/	/	10,00	7,31	5,90	/	/	/	12,50	9,30	7,05	/	/	/
Water flow rate	(4) l/h	/	/	/	/	/	/	744	560	464	/	/	/	875	639	516	/	/	/	1094	814	617	/	/	/
Pressure drops	(4) kPa	/	/	/	/	/	/	14,5	8,7	6,2	/	/	/	19,7	11,2	7,6	/	/	/	30,1	17,7	10,7	/	/	/
Cooling Performance																									
Total cooling capacity	(5) kW	5,45	3,32	2,81	6,00	4,04	2,80	6,00	4,04	2,80	9,00	5,89	4,05	7,20	4,91	3,50	11,00	7,51	5,36	8,80	6,21	4,57	/	/	/
Sensible cooling capacity	(5) kW	4,10	2,34	1,90	4,20	2,76	1,90	4,20	2,76	1,90	6,66	4,29	2,94	5,30	3,53	2,48	8,47	5,74	4,04	6,77	4,67	3,37	/	/	/
Water flow rate	(5) l/h	938	571	484	1032	695	482	1032	695	482	1547	1012	697	1238	845	602	1893	1292	921	1513	1068	786	/	/	/
Pressure drops	(5) kPa	57	23,3	17,3	34,7	17	8,8	31,7	15,6	8,1	43	20	10,2	35,6	17,9	9,7	60,1	30,2	16,4	52,3	28	16,1	/	/	/
Water content	l		2,1			3,0			3,0			4,5			4,5			4,5			4,5				
Fans																									
Fan	type/n°	centrifugal/1																							
Air flow rate	m³/h	900	520	400	1100	680	460	1100	680	460	1350	830	560	1350	830	560	1750	1100	750	1750	1100	750	/	/	/
Sound data																									
Sound power level	(6) dB(A)	60	49	44	50	43	39	50	43	39	54	45	40	54	45	40	60	50	44	60	50	44	/	/	/
Sound pressure level	dB(A)	51	40	35	41	34	30	41	34	30	45	36	31	45	36	31	51	41	35	51	41	35	/	/	/
Diameter connections																									
Standard coil	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Additional coil	Ø	/			/			1/2"			/			1/2"			/			1/2"			/		
Increased coil	Ø	/			/			/			/			/			/			/			/		
Electrical Features																									
Absorbed power	W	110	58	50	150	80	45	150	80	45	155	80	50	155	80	50	175	105	55	175	105	55	/	/	/
Max. input current	A	0,52			0,70			0,70			0,70			0,70			0,75			0,75			/		
Electrical wiring		V4	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1	V4	V2	V1
Power supply	V/ph/Hz	230V~50Hz																							
Energy Efficiency classification (EUROVENT)																									
FCEER		D			E			E			D			D			D			D			D		
FCCOP	(7)	D			E			D			D			D			D			D			D		

H max. speed; M med. speed; L min. speed

(1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;

(2) Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode (EUROVENT)

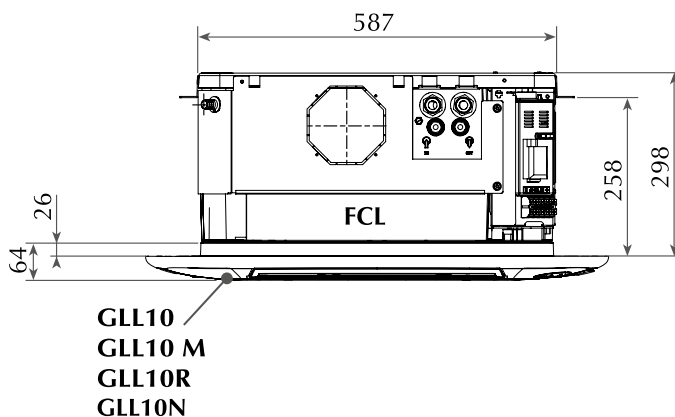
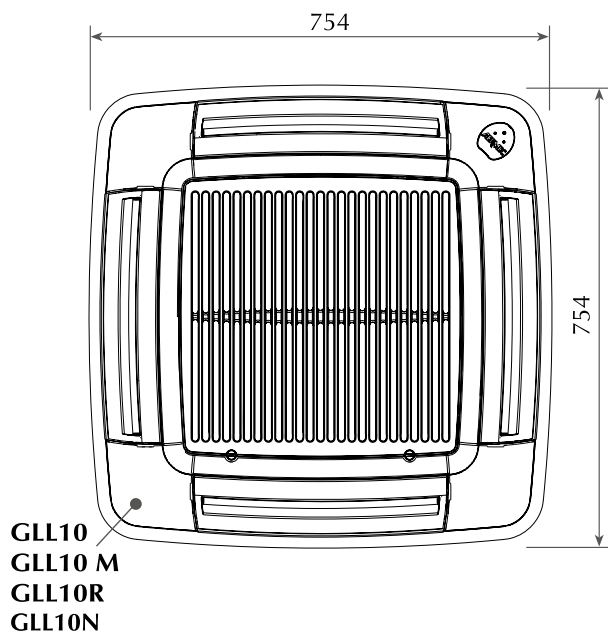
(3) Room air 20°C b.s.; Water (in/out) 45°C/40°C (EUROVENT)

(4) Room air 20°C b.s.; Water (in/out) 70°C/60°C (EUROVENT)

(5) Room air 27°C

Dimensions (mm)

FCL 32 - 34 - 36 - 38 - 42 - 44 - 62 - 64 - 72
 FCL 32 V2 - 34 V2 - 36 V2 - 38 V2 - 42 V2 - 44 V2 - 62 V2 - 64 V2 - 72 V2
 FCL 32 VL - 34 VL - 36 VL - 38 VL - 42 VL - 44 VL - 62 VL - 64 VL - 72 VL

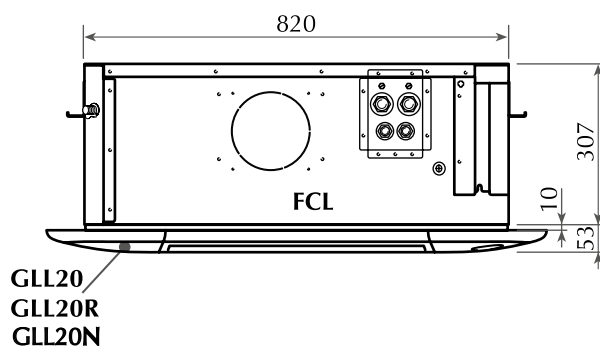
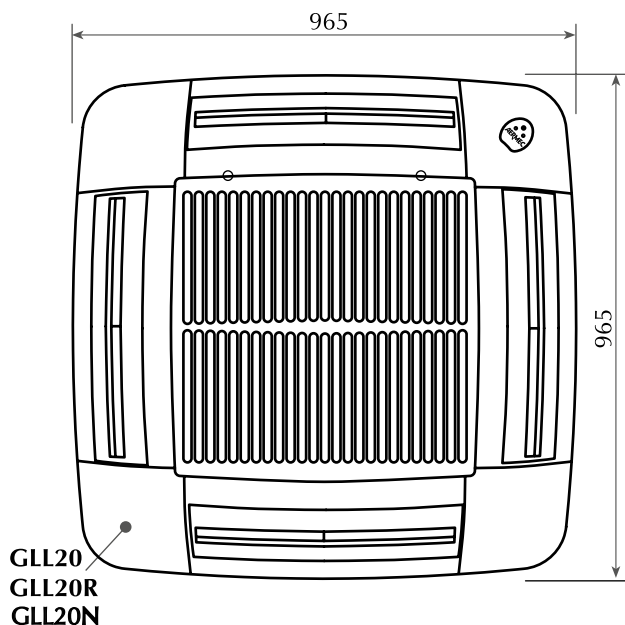


Mod. FCL		32	34	36	38	42	44	62	64	72
Weight	kg	20,5	21	20,5	21	20,5	21	22	22,5	22,5

Mod. FCL		32 V2	34 V2	36 V2	38 V2	42 V2	44 V2	62 V2	64 V2	72 V2
Weight	kg	20,5	21	20,5	21	20,5	21	21	22,5	22,5

Mod. FCL		32 VL	34 VL	36 VL	38 VL	42 VL	44 VL	62 VL	64 VL	72 VL
Weight	kg	20	20,5	20	20,5	20	20,5	21,5	22	22

FCL 82 - 84 - 102 - 104 - 122 - 124
 FCL 82 V2 - 84 V2 - 102 V2 - 104 V2 - 122 V2 - 124 V2
 FCL 82 VL - 84 VL - 102 VL - 104 VL - 122 VL - 124 VL



Mod. FCL		82	84	102	104	122	124
Weight	kg	35	36	36	36	36	36

Mod. FCL		82 V2	84 V2	102 V2	104 V2	122 V2	124 V2
Weight	kg	35	36	36	36	36	36

Mod. FCL		32 VL	34 VL	102 VL	104 VL	122 VL	124 VL
Weight	kg	34	35	35	35	35	35

All specifications are subject to change without prior notice. Although every effort has been made to ensure accuracy, Aermec does not assume responsibility or liability for eventual errors or omissions

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